

142970

SEVERN  
TRENT  
SERVICES

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## **ANALYTICAL REPORT**

RIVERDALE

**Lot #: A0J110192**

**Rae Mindock**

RMT  
222 South Riverside Plaza  
Suite 820  
Chicago, IL 60606

**SEVERN TRENT LABORATORIES, INC.**

*Kenneth J. Kuzior*  
**Kenneth J. Kuzior**  
Project Manager

**October 26, 2000**



## **CASE NARRATIVE**

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## **CASE NARRATIVE**

**A0J110192**

The following report contains the analytical results for eight solid samples submitted to STL North Canton by RMT from the Riverdale site. The samples were originally received on September 1, 2000, according to documented sample acceptance procedures. On October 3, 2000 the client requested herbicide analyses after the sample holding time had been exceeded.

STL utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan. All data have been found to be compliant with laboratory protocol.

## QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

### QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

### LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

### METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)  
Methylene chloride  
Acetone  
2-Butanone

Semivolatile (GC/MS)  
Phthalate Esters

Metals  
Copper  
Iron  
Zinc  
Lead\*

\* for analyses run on TJA Trace ICP or GFAA only

## QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

### **MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

### **SURROGATE COMPOUNDS**

In addition to these batch-related QC indicators, each organic environmental and QC sample are spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide/PCB, PAH, and Herbicide methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

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### **STL North Canton, Certifications and Approvals:**

Alabama (#41170), California (#2157), Connecticut (#PH-0590), Florida (#E87225) – Florida CompQAPP (#890651G), Kentucky (#90021), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), Missouri (#6090), New Jersey (#74001), New York (#10975), North Dakota (#R-156), Ohio (#6090), OhioVAP (#CLO024), Pennsylvania (#68-340), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence –

STL North Canton Participating Lab Status Award (#82)



## ***METHOD REFERENCE***

## **ANALYTICAL METHODS SUMMARY**

**A0J110192**

<b><u>PARAMETER</u></b>	<b><u>ANALYTICAL METHOD</u></b>
Chlorinated Herbicides by GC	SW846 8151A
Total Residue as Percent Solids	MCAWW 160.3 MOD

**References:**

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.



## ***SAMPLE SUMMARY***

## SAMPLE SUMMARY

A0J110192

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
DLXCX	001	SL50-6"	08/31/00	09:40
DLXDJ	002	SL50-4'	08/31/00	09:50
DLXDQ	004	SL51-4'	08/31/00	10:30
DLXDR	005	SL52-6"	08/31/00	10:45
DLXDW	006	SL52-4'	08/31/00	10:45
DLXDX	007	SL53-6"	08/31/00	11:00
DLXE0	008	SL54-6"	08/31/00	11:05
DLXE3	009	SL55-6"	08/31/00	11:08

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



***SHIPPING  
AND  
RECEIVING DOCUMENTS***

RSR280

Client: 64186

Lot #: A0J110192

Case Number/SDG:

Storage Location: C269

Severn Trent Laboratories, Inc.  
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
DLXCX	EZZOL	9/01/00	Yes		Storage	
DLXDJ	EZZOL	9/01/00	Yes		Storage	
DLXDK	EZZOL	9/01/00	Yes		Storage	
DLXDQ	EZZOL	9/01/00	Yes		Storage	
DLXDR	EZZOL	9/01/00	Yes		Storage	
DLXDW	EZZOL	9/01/00	Yes		Storage	
DLDXD	EZZOL	9/01/00	Yes		Storage	
DLXE0	EZZOL	9/01/00	Yes		Storage	
DLXE3	EZZOL	9/01/00	Yes		Storage	



## ***HERBICIDE DATA***



## *QC SUMMARY DATA*

## SW846 8151A SURROGATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN QESSDG:

Lot #: A0J110192

	CLIENT ID.	SRG01	TOT OUT
01	SL50-6"	74	00
02	SL50-4'	90	00
03	SLS1-4'	88	00
04	SL52-6"	80	00
05	SL52-4'	79	00
06	SL53-6"	69	00
07	SL54-6"	81	00
08	SL55-6"	82	00
09	METHOD BLK. DM2XK1AA	82	00
10	LCS DM2XK1AC	75	00
11	LCSD DM2XK1AD	88	00

SURROGATES

SRG01 = 2,4-Dichlorophenylacetic acid

QC LIMITS

( 10-115)

- # Column to be used to flag recovery values
- \* Values outside of required QC Limits
- D System monitoring Compound diluted out

FORM II

## SW846 8151A CHECK SAMPLE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No:

Lot #: A0J120000 WO #: DM2XK1AC  
BATCH: 0286378

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,4-D	400	270	67	10 - 110	
2,4,5-T	100	76	76	17 - 117	
2,4,5-TP (Silvex)	100	80	80	15 - 110	

NOTES (S) :

\* Values outside of QC limits

Spike Recovery:   0   out of   3   outside limits

COMMENTS:

## SW846 8151A CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc. Client: RMT

Lab Code: QESCAN SDG No:

Lot #: A0J120000 WO #: DM2XK1AD  
BATCH: 0286378

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
2,4-D	400	350	87	10 - 110	
2,4,5-T	100	94	94	17 - 117	
2,4,5-TP (Silvex)	100	98	98	15 - 110	

NOTES(S) :

\* Values outside of QC limits

Spike Recovery:   0   out of   3   outside limits

COMMENTS:

BLANK WORKORDER NO.

SW846 8151A METHOD BLANK SUMMARY

DM2XXK1AA

Lab Name: Severn Trent Laboratories, Inc.

Lab Code: QESCAN

SDG Number:

Lab File ID: 037F3701.

Lot Number: A0J110192

Matrix: SOLID

Extraction Method: 8151A

Date Extracted: 10/13/00

Date Analyzed(1): 10/18/00

Date Analyzed(2): N/A

Time Analyzed(1): 04:32

Time Analyzed(2): N/A

Instrument ID(1): P1

Instrument ID(2): N/A

GC Column(1): N/A

ID: N/A

GC Column(2): N/A

ID: N/A

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, AND MSD:

CLIENT ID.	SAMPLE WORK ORDER #	DATE	DATE
		ANALYZED(1)	ANALYZED(2)
01 SL50-6"	DLXCX101	10/18/00	N/A
02 SL50-4'	DLXDJ101	10/18/00	N/A
03 SL51-4'	DLXDJ101	10/18/00	N/A
04 SL52-6"	DLXDR101	10/18/00	N/A
05 SL52-4'	DLXDW101	10/18/00	N/A
06 SL53-6"	DLDXD101	10/18/00	N/A
07 SL54-6"	DLXE0101	10/18/00	N/A
08 SL55-6"	DLXE3101	10/18/00	N/A
09 CHECK SAMPLE	DM2XXK1AC C	10/18/00	N/A
10 DUPLICATE CHECK	DM2XXK1AD L	10/18/00	N/A
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

COMMENTS:



## *SAMPLE DATA*

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 001

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50 / g

Date Received: 09/01/00

Work Order: DLXCX101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:21

QC Batch: 0286378

Client Sample Id: SL50-6"

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
94-75-7	2,4-D	100		U
93-72-1	2,4,5-TP (Silvex)	25		U
93-76-5	2,4,5-T	40		

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HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\029F2901.D  
Lab Smp Id: DLXCX101 Client Smp ID: SL50-6"  
Inj Date : 18-OCT-2000 01:27  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxcx101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 29  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

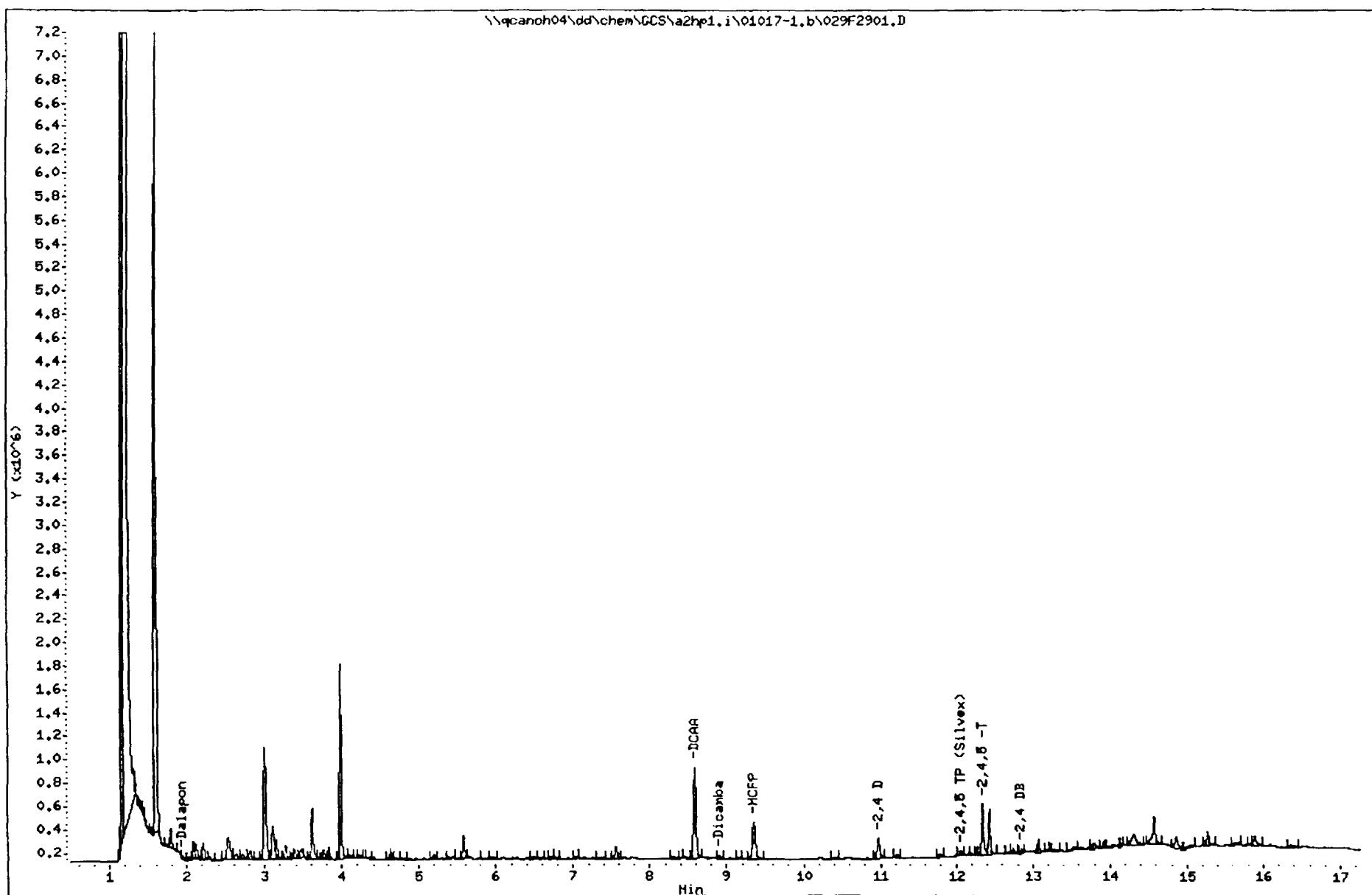
Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	( ng)	FINAL (ug/Kg)
1 Dalapon	1.939	1.907	0.032	22322	0.00139	2.784
2 DCAA	8.579	8.576	0.003	1859423	0.14859	14.86
3 Dicamba	8.907	8.902	0.005	60117	0.00121	2.411
4 MCPP	9.349	9.364	-0.015	315068	25.7771	51550
5 MCPA	Compound Not Detected.					
6 Dichloroprop	Compound Not Detected.					
7 2,4 D	10.965	10.961	0.004	391428	0.03160	63.21
8 2,4,5 TP (Silvex)	12.053	12.051	0.002	75601	0.00120	2.399
9 2,4,5 -T	12.336	12.333	0.003	811034	0.01573	31.46
27 2,4 DB	12.847	12.820	0.027	52998	0.00966	19.31
28 Dinosab	Compound Not Detected.					

Data File: \\qcanoh04\dd\chem\GCS\2hp1.i\01017-1.b\029F2901.D  
Date : 18-OCT-2000 01:27  
Client ID: SL50-6\*  
Sample Info: dlxcxi01  
Volume Injected (uL): 1.0  
Column phase: pestcolp1

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 01:27  
 Data File: //qcanoh04/dd/chem/GCS/a2hp1.i/01017-1.b/029F2901.D  
 Lab Sample ID: DLXCX101  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.939	22322	0.001	2.784 ug/Kg
2) DCAA	8.580	1859423	0.149	14.860 ug/Kg
3) Dicamba	8.907	60117	0.001	2.411 ug/Kg
4) MCPP	9.349	915484	25.777	51550.000 ug/Kg
5) MCFA	NOT DETECTED	Expected RT = 9.698		
6) Dichloroprop	NOT DETECTED	Expected RT = 10.543		
7) 2,4 D	10.966	391428	0.032	63.210 ug/Kg
8) 2,4,5 TP (Silvex)	12.053	75601	0.001	2.399 ug/Kg
9) 2,4,5 -T	12.337	811034	0.016	31.460 ug/Kg
27) 2,4 DB	12.847	52998	0.010	19.310 ug/Kg
28) Dinoesab	NOT DETECTED	Expected RT = 13.611		

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Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\029F2901.D  
Lab Smp Id: DLXCX101 Client Smp ID: SL50-6"  
Inj Date : 18-OCT-2000 01:27  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxcx101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 29  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

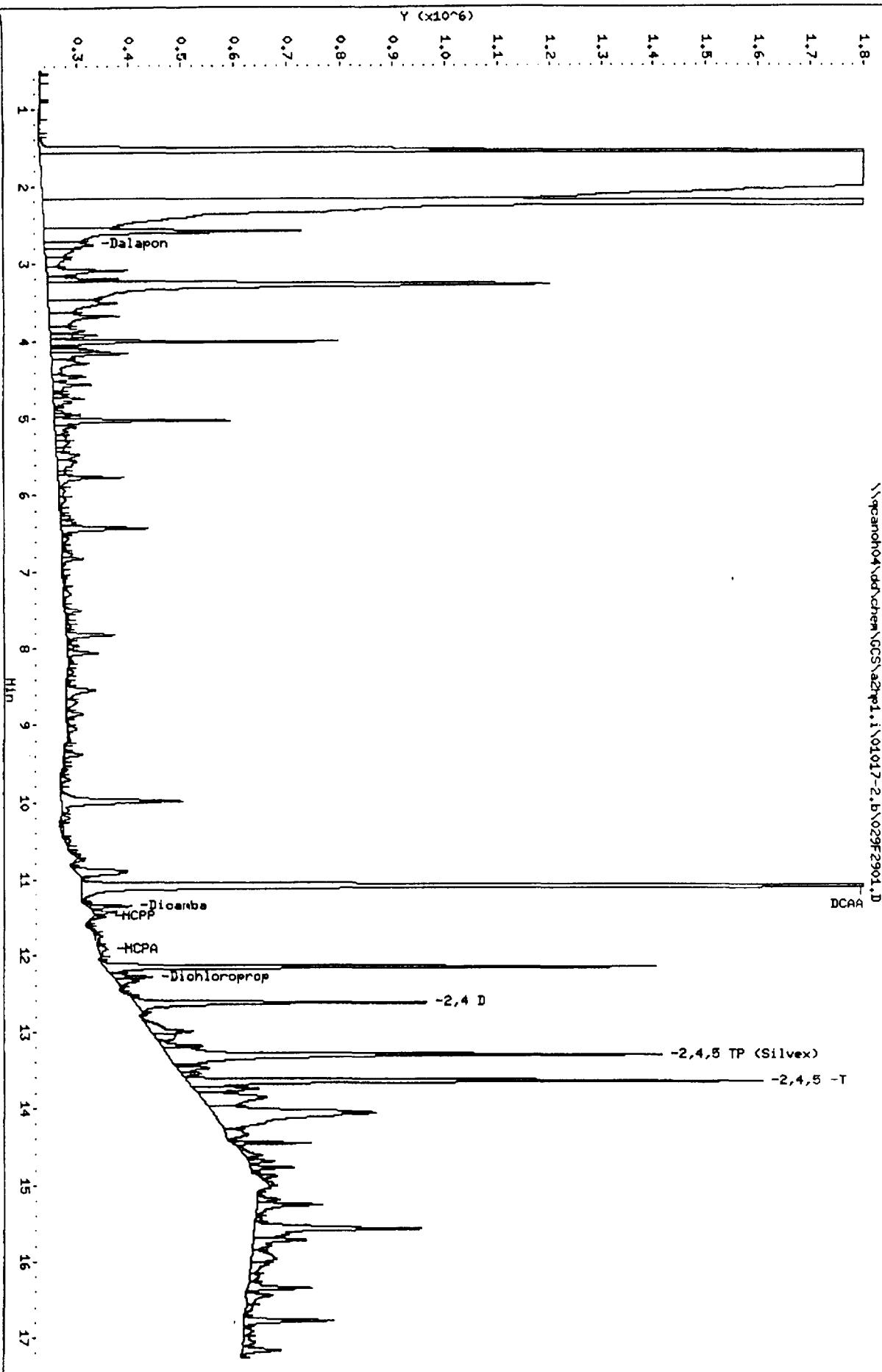
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.754	2.713	0.041	370260	0.00565	11.307
2 DCAA	11.081	11.078	0.003	7870053	0.14872	14.872
3 Dicamba	11.365	11.364	0.001	193904	0.00107	2.1373
4 MCPP	11.514	11.560	-0.046	25004	0.30434	608.68
5 MCPA	11.927	11.879	0.048	16806	0.15301	306.01
6 Dichloroprop	12.290	12.287	0.003	201390	0.00335	6.7072
7 2,4 D	12.619	12.617	0.002	1482508	0.02984	59.674
8 2,4,5 TP (Silvex)	13.294	13.338	-0.044	2952405	0.01271	25.428
9 2,4,5 -T	13.633	13.631	0.002	2814301	0.01490	29.800
10 2,4 DB				Compound Not Detected.		
11 Dineoseb				Compound Not Detected.		

Data File: \\pcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-2.b\\029F2901.D  
Date : 18-OCT-2000 01:27  
Client ID: SL50-6"  
Sample Info: dioxad01  
Volume Injected (uL): 1.0  
Column phase: pestcol1

Page 3

Instrument: a2hp1.1  
Operator: 001754  
Column diameter: 0.53

\\pcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-2.b\\029F2901.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 01:27  
Data File: //qcanoh04/dd/chem/GCS\s2hp1.i\01017-2.b\029F2901.D  
Lab Sample ID: DLXCX101  
Misc. Info:  
Instrument: s2hp1.i  
Method: \\QCANOH04\DD\chem\GCS\s2hp1.i\01017-2.b\HERBR.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.754	370260	0.006	11.307 ug/Kg
2) DCAA	11.082	7870053	0.149	14.872 ug/Kg
3) Dicamba	11.366	193904	0.001	2.137 ug/Kg
4) MCPP	11.514	58143	0.304	608.680 ug/Kg
5) MCPA	11.927	67282	0.153	306.010 ug/Kg
6) Dichloroprop	12.291	201390	0.003	6.707 ug/Kg
7) 2,4 D	12.620	1482508	0.030	59.674 ug/Kg
8) 2,4,5 TP (Silvex)	13.294	2952405	0.013	25.428 ug/Kg
9) 2,4,5 -T	13.633	2814301	0.015	29.800 ug/Kg
10) 2,4 DB	NOT DETECTED	Expected RT = 13.984		
11) Dinoseb	NOT DETECTED	Expected RT = 14.188		

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 002

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.09 / g

Date Received: 09/01/00

Work Order: DLXDJ101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:22

QC Batch: 0286378

Client Sample Id: SL50-4'

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
94-75-7	2,4-D	100		U
93-72-1	2,4,5-TP (Silvex)	26		U
93-76-5	2,4,5-T	26		U

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HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\030F3001.D  
Lab Smp Id: DLXDJ101 Client Smp ID: SL50-4'  
Inj Date : 18-OCT-2000 01:50  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxdj101  
Misc Info :  
Comment :  
Method : \\\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 30  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

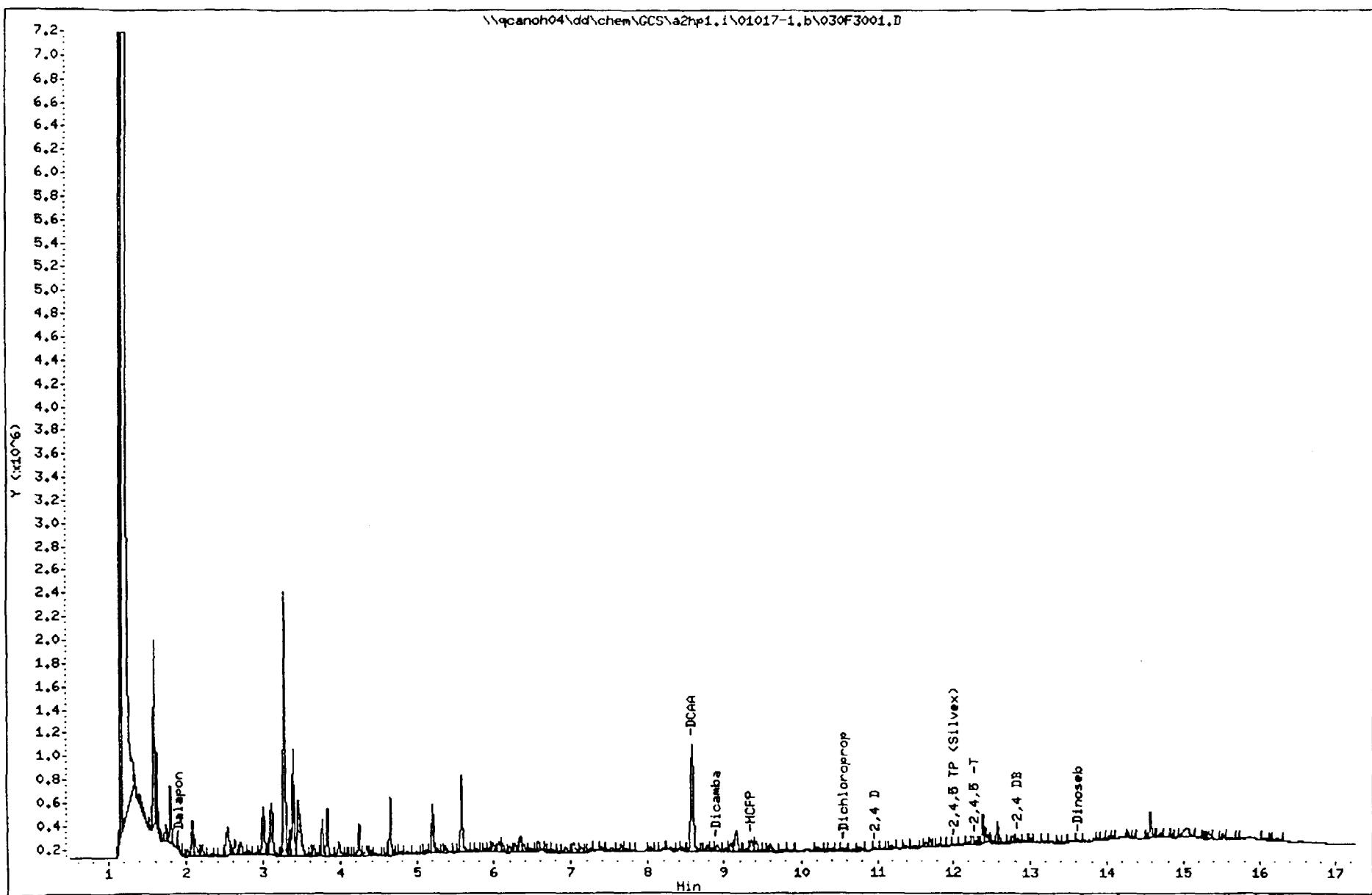
Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.090	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	1.907	1.907	0.000	59561	0.00371	7.416
\$ 2 DCAA	8.580	8.576	0.004	2240604	0.17906	17.90
3 Dicamba	8.907	8.902	0.005	111699	0.00224	4.471
4 MCPP	9.350	9.364	-0.014	91192	7.46081	14890
5 MCPA	Compound Not Detected.					
6 Dichloroprop	10.567	10.543	0.024	84625	0.00585	11.67
7 2,4 D	10.977	10.961	0.016	39944	0.00323	6.438
8 2,4,5 TP (Silvex)	12.029	12.051	-0.022	32419	<0.0	1.027
9 2,4,5 -T	12.297	12.333	-0.036	57174	0.00111	2.214
27 2,4 DB	12.844	12.820	0.024	101756	0.01854	37.01
28 Dinoseb	13.632	13.611	0.021	35983	0.00106	2.108

Data File: \\qcanoh04\dd\chem\GCS\2hp1.i\01017-1.b\030F3001.D  
Date : 18-OCT-2000 01:50  
Client ID: SL50-4'  
Sample Info: dlxdj101  
Volume Injected (uL): 1.0  
Column phase: pestclpl

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 01:50  
 Data File: //qcanoh04/dd/chem/GCS/a2hp1.i/01017-1.b/030F3001.D  
 Lab Sample ID: DLXDJ101  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-1.b\HERB.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.908	59561	0.004	7.416 ug/Kg
2) DCAA	8.580	2240604	0.179	17.900 ug/Kg
3) Dicamba	8.908	111699	0.002	4.471 ug/Kg
4) MCPP	9.350	266472	7.461	14890.000 ug/Kg
5) MCPA	NOT DETECTED Expected RT = 9.698			
6) Dichloroprop	10.567	84625	0.006	11.670 ug/Kg
7) 2,4 D	10.978	39944	0.003	6.438 ug/Kg
8) 2,4,5 TP (Silvex)	12.030	32419	0.001	1.027 ug/Kg
9) 2,4,5 -T	12.297	57174	0.001	2.214 ug/Kg
27) 2,4 DB	12.845	101756	0.019	37.010 ug/Kg
28) Dinoseb	13.632	35983	0.001	2.108 ug/Kg

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\030F3001.D  
Lab Smp Id: DLXDJ101 Client Smp ID: SL50-4'  
Inj Date : 18-OCT-2000 01:50  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxdj101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 30  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.090	initial volume

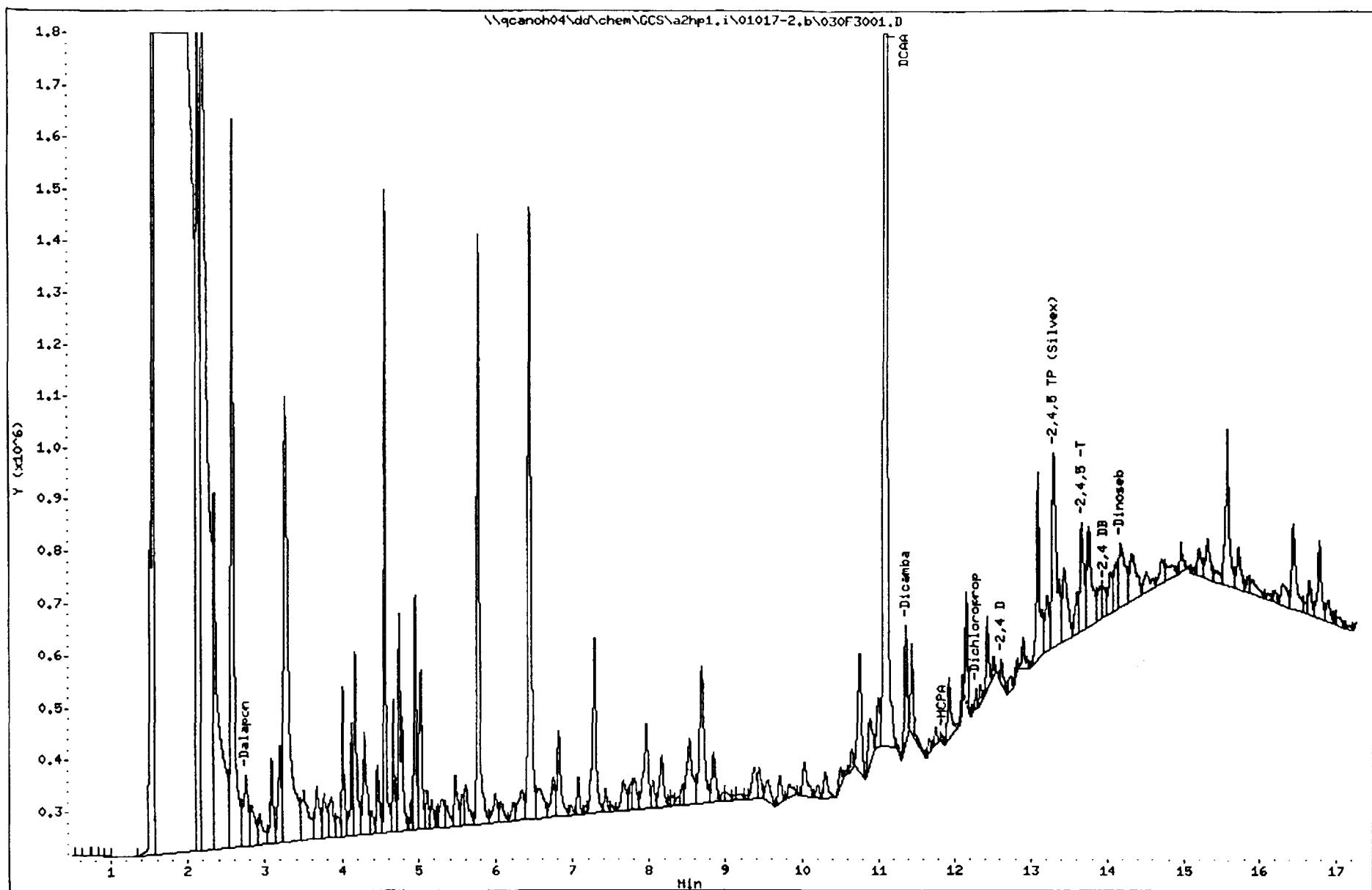
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.755	2.713	0.042	558250	0.00852	17.017
2 DCAA	11.081	11.078	0.003	8975840	0.16962	16.962
3 Dicamba	11.365	11.364	0.001	544203	0.00300	5.9878
4 MCPP	Compound Not Detected.					
5 MCPA	11.848	11.879	-0.031	14249	0.12973	258.98
6 Dichloroprop	12.281	12.287	-0.006	64188	0.00107	2.1339
7 2,4 D	12.616	12.617	-0.001	118592	0.00239	4.7650
8 2,4,5 TP (Silvex)	13.295	13.338	-0.043	1651341	0.00711	14.197
9 2,4,5 -T	13.660	13.631	0.029	707469	0.00375	7.4779
10 2,4 DB	13.956	13.983	-0.027	195395	0.00929	18.554
11 Dinoseb	14.167	14.188	-0.021	697439	0.00642	12.817

Data File: \\qcanoh04\dd\chem\GCS\A2hp1.i\01017-2.b\030F3001.D  
Date : 18-OCT-2000 01:50  
Client ID: SL50-4'  
Sample Info: dlxdj101  
Volume Injected (uL): 1.0  
Column phase: pestclpi

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53

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## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 01:50  
 Data File: //qcanno04/dd/chem/GCS\2hp1.i\01017-2.b\030F3001.D  
 Lab Sample ID: DLXDJ101  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.755	558250	0.009	17.017 ug/Kg
2) DCAA	11.081	8975840	0.170	16.962 ug/Kg
3) Dicamba	11.365	544203	0.003	5.988 ug/Kg
4) MCPP	NOT DETECTED Expected RT = 11.561			
5) MCPA	11.849	26101	0.130	258.980 ug/Kg
6) Dichloroprop	12.281	64188	0.001	2.134 ug/Kg
7) 2,4 D	12.616	118592	0.002	4.765 ug/Kg
8) 2,4,5 TP (Silvex)	13.295	1651341	0.007	14.197 ug/Kg
9) 2,4,5 -T	13.660	707469	0.004	7.478 ug/Kg
10) 2,4 DB	13.956	195395	0.009	18.554 ug/Kg
11) Dinoseb	14.168	697439	0.006	12.817 ug/Kg

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 004

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.01 / g

Date Received: 09/01/00

Work Order: DLXDQ101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:27

QC Batch: 0286378

Client Sample Id: SL51-4'

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
94-75-7	2,4-D	110			U
93-72-1	2,4,5-TP (Silvex)	27			U
93-76-5	2,4,5-T	27			U

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\031F3101.D

Lab Smp Id: DLXDQ101 Client Smp ID: SL51-4'

Inj Date : 18-OCT-2000 02:13

Operator : 001754

Inst ID: a2hp1.i

Smp Info : dlxdq101

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m

Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD

Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D

Als bottle: 31

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.010	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ng)	FINAL (ug/Kg)
1 Dalapon	1.939	1.907	0.032	23399	0.00146	2.918
2 DCAA	8.580	8.576	0.004	2199827	0.17580	17.58
3 Dicamba	8.907	8.902	0.005	158906	0.00319	6.371
4 MCPP	9.348	9.364	-0.016	44597	3.64867	7296
5 MCPA	Compound Not Detected.					
6 Dichloroprop	Compound Not Detected.					
7 2,4 D	Compound Not Detected.					
8 2,4,5 TP (Silvex)	Compound Not Detected.					
9 2,4,5 -T	Compound Not Detected.					
27 2,4 DB	12.847	12.820	0.027	41103	0.00749	14.98
28 Dinoseb	Compound Not Detected.					

Date : 18-OCT-2000 02:13

Client ID: SL51-4'

Sample Info: d1xd9101

Volume Injected (uL): 1.0

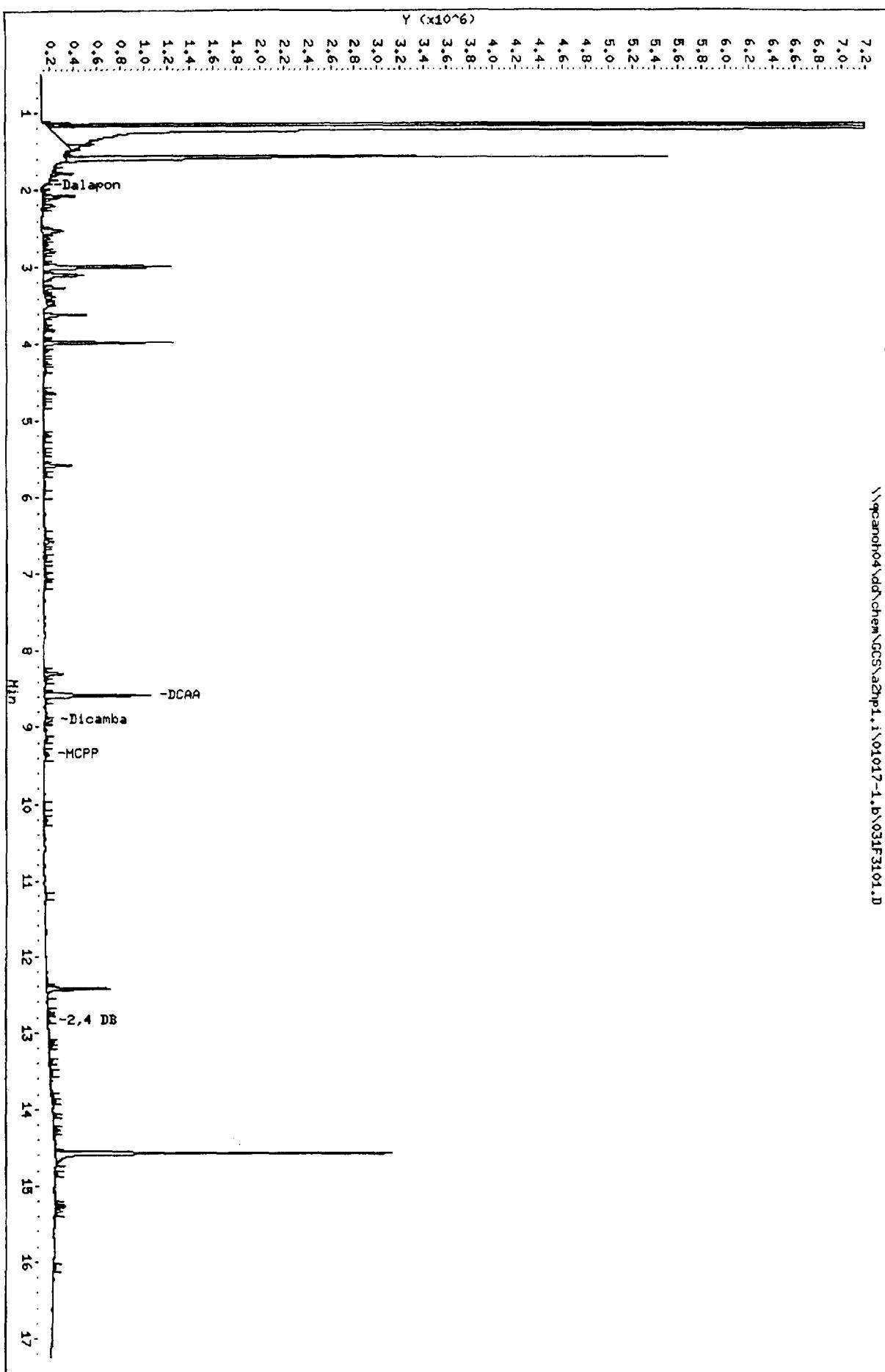
Column Phase: pestclpi

Instrument: 2hp1.i

Operator: 001754

Column diameter: 0.53

\\pcanoh04\dd\chem\GCS\2hp1.i\01017-1.b\031F3101.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:13  
Data File: //qcanno04/dd/chem/GCS\m2hpl.i\01017-1.b\031F3101.D  
Lab Sample ID: DLXDGQ101  
Misc. Info:  
Instrument: m2hpl.i  
Method: \\QCANOH04\DD\chem\GCS\m2hpl.i\01017-1.b\HERB.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.940	23399	0.001	2.918 ug/Kg
2) DCAA	8.581	2199827	0.176	17.580 ug/Kg
3) Dicamba	8.907	158906	0.003	6.371 ug/Kg
4) MCPP	9.349	134586	3.649	7296.000 ug/Kg
5) MCPA	NOT DETECTED	Expected RT = 9.698		
6) Dichloroprop	NOT DETECTED	Expected RT = 10.543		
7) 2,4 D	NOT DETECTED	Expected RT = 10.961		
8) 2,4,5 TP (Silvex)	NOT DETECTED	Expected RT = 12.051		
9) 2,4,5 -T	NOT DETECTED	Expected RT = 12.334		
27) 2,4 DB	12.847	41103	0.007	14.980 ug/Kg
28) Dinoseb	NOT DETECTED	Expected RT = 13.611		

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\031F3101.D

Lab Smp Id: DLXDQ101 Client Smp ID: SL51-4'

Inj Date : 18-OCT-2000 02:13

Operator : 001754

Inst ID: a2hp1.i

Smp Info : dlxdq101

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m

Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD

Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D

Als bottle: 31

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

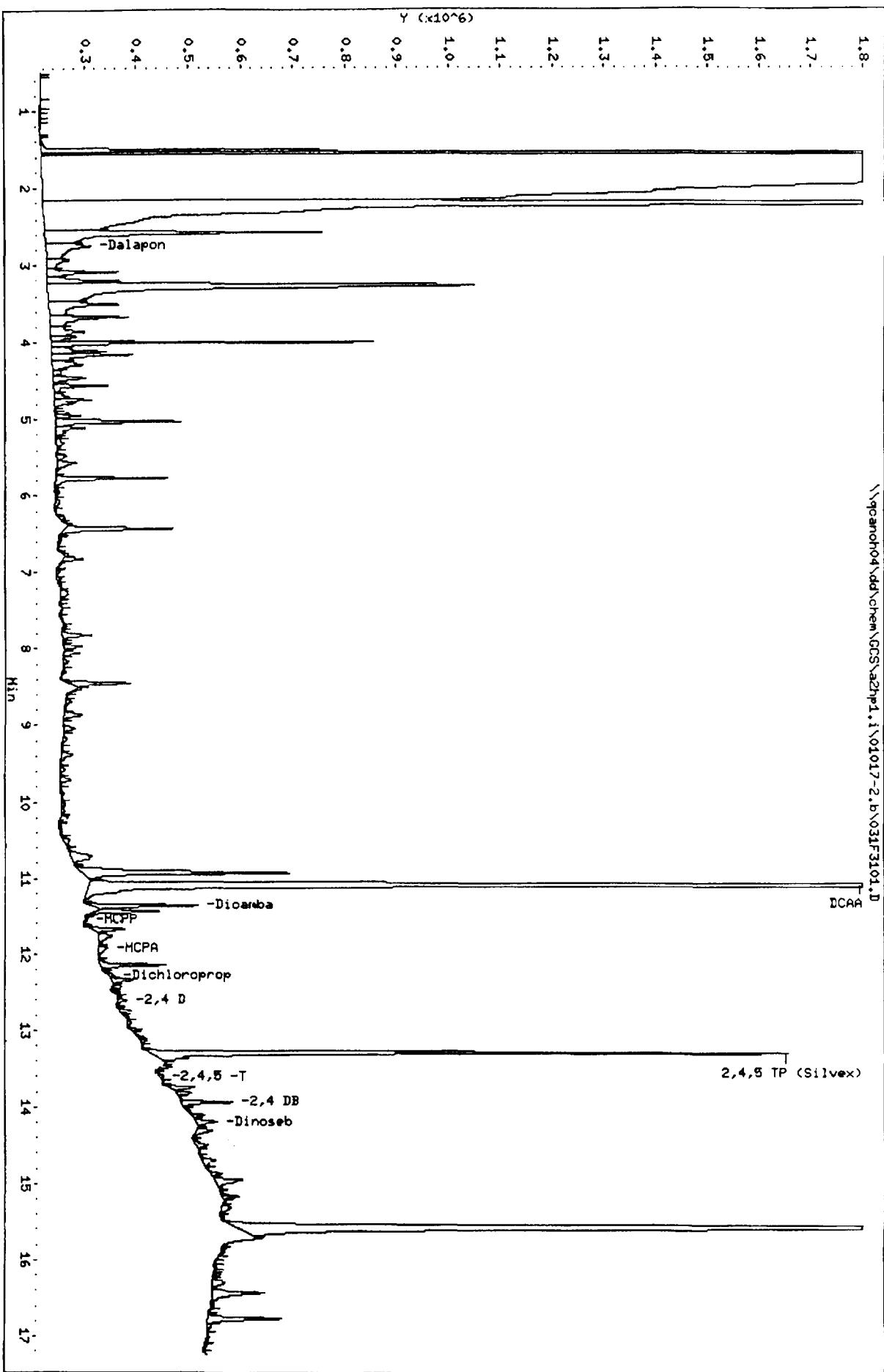
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.010	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.751	2.713	0.038	589588	0.00900	18.001
\$ 2 DCAA	11.082	11.076	0.004	9210897	0.17406	17.406
3 Dicamba	11.368	11.364	0.004	468752	0.00258	5.1659
4 MCPP	11.558	11.560	-0.002	7991	0.09726	194.49
5 MCPA	11.929	11.879	0.050	18549	0.16887	337.68
6 Dichloroprop	12.283	12.287	-0.004	29716	<0.0	0.98948
7 2,4 D	12.618	12.617	0.001	35533	<0.0	1.4300
8 2,4,5 TP (Silvex)	13.295	13.338	-0.043	2756200	0.01187	23.733
9 2,4,5 -T	13.607	13.631	-0.024	32527	<0.0	0.34436
10 2,4 DB	13.938	13.983	-0.045	205058	0.00975	19.503
11 Dinosab	14.198	14.188	0.010	118969	0.00110	2.1898

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53  
\\qcanoh04\\chem\\GCS\\a2hp1.i\\01017-2.b\\031F3101.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:13  
 Data File: //qcanoh04/dd/chem/GCS\2hp1.i\01017-2.b\031F3101.D  
 Lab Sample ID: DLXHQ101  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.751	589588	0.009	18.001 ug/Kg
2) DCAA	11.082	9210897	0.174	17.406 ug/Kg
3) Dicamba	11.368	468752	0.003	5.166 ug/Kg
4) MCPP	11.558	19353	0.097	194.490 ug/Kg
5) MCPA	11.930	84588	0.169	337.680 ug/Kg
6) Dichloroprop	12.284	29716	0.000	0.989 ug/Kg
7) 2,4 D	12.619	35533	0.001	1.430 ug/Kg
8) 2,4,5 TP (Silvex)	13.296	2756200	0.012	23.733 ug/Kg
9) 2,4,5 -T	13.607	32527	0.000	0.344 ug/Kg
10) 2,4 DB	13.939	205058	0.010	19.503 ug/Kg
11) Dinoseb	14.199	118969	0.001	2.190 ug/Kg

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID:A0J110192 005

Sample WT/Vol: 50.04 / g  
Work Order: DLXDR101  
Dilution factor: 1  
Moisture %:35

Date Received: 09/01/00  
Date Extracted: 10/13/00  
Date Analyzed: 10/18/00

QC Batch: 0286378

Client Sample Id: SL52-6"

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
94-75-7	2,4-D	120			U
93-72-1	2,4,5-TP (Silvex)	31			U
93-76-5	2,4,5-T	31			U

FORM I

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\032F3201.D

Lab Smp Id: DLXDR101 Client Smp ID: SL52-6"

Inj Date : 18-OCT-2000 02:36

Operator : 001754

Inst ID: a2hp1.i

Smp Info : dlxdr101

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m

Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD

Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D

Als bottle: 32

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.040	initial volume

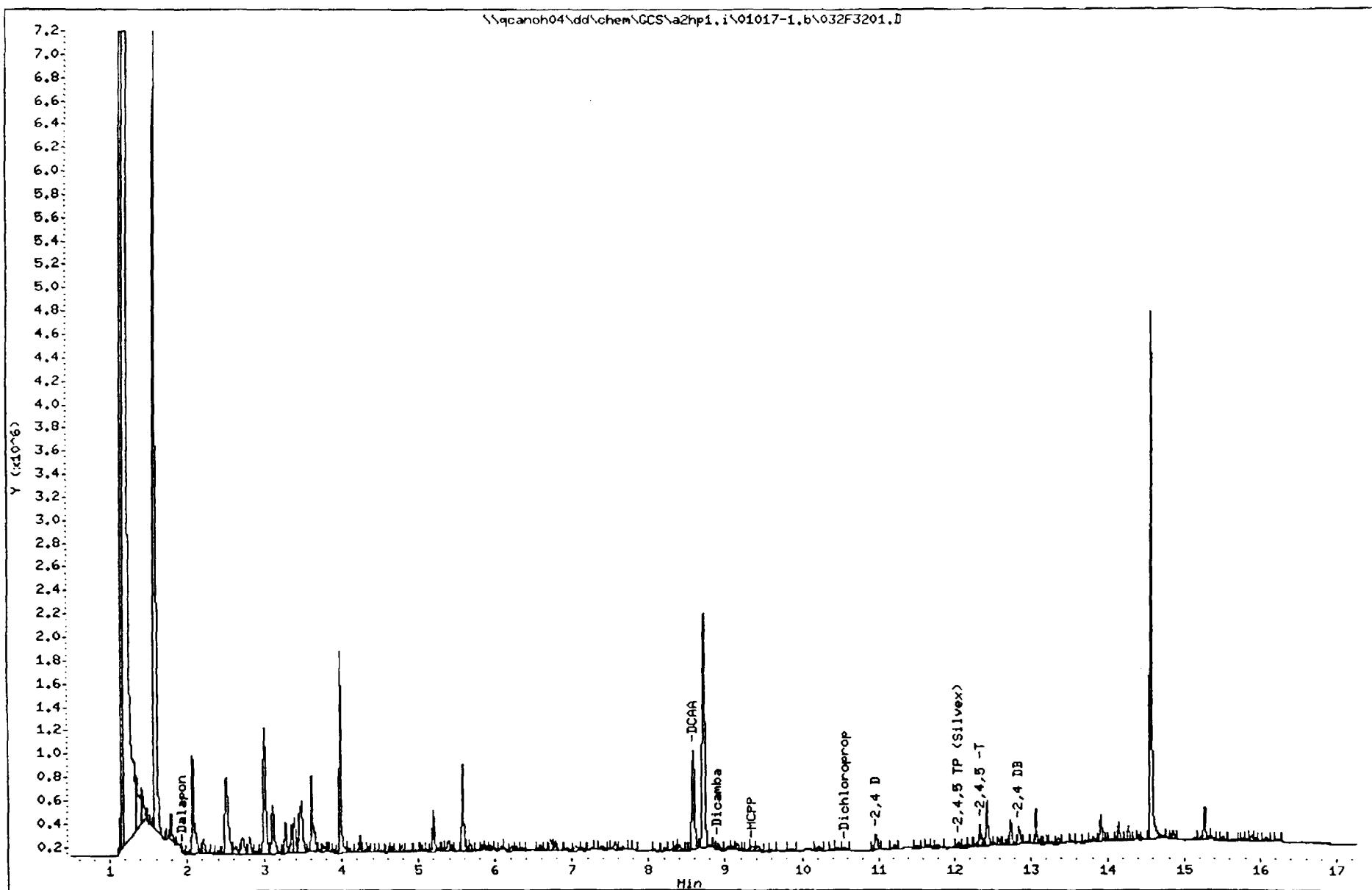
Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	( ng)	(ug/Kg)
1 Dalapon	1.940	1.907	0.033	29341	0.00183	3.657
2 DCAA	8.579	8.576	0.003	2015087	0.16103	16.10
3 Dicamba	8.906	8.902	0.004	104320	0.00209	4.180
4 MCPP	9.348	9.364	-0.016	37626	3.07834	6152
5 MCPA	Compound Not Detected.					
6 Dichloroprop	10.553	10.543	0.010	70028	0.00484	9.670
7 2,4 D	10.966	10.961	0.005	328463	0.02652	53.00
8 2,4,5 TP (Silvex)	12.055	12.051	0.004	76774	0.00122	2.434
9 2,4,5 -T	12.336	12.333	0.003	283078	0.00549	10.97
27 2,4 DB	12.845	12.820	0.025	288787	0.05262	105.2
28 Dinoseb	Compound Not Detected.					

Data File: \\qcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-1.b\\032F3201.D  
Date : 18-OCT-2000 02:36  
Client ID: SL52-6"  
Sample Info: dlxdr101  
Volume Injected (uL): 1.0  
Column phase: pestclp1

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53

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## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:36  
Data File: //qcanoh04/dd/chem/GCS/a2hp1.i/01017-1.b/032F3201.D  
Lab Sample ID: DLXDR101  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-1.b\HERB.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.940	29341	0.002	3.657 ug/Kg
2) DCAA	8.579	2015087	0.161	16.100 ug/Kg
3) Dicamba	8.907	104320	0.002	4.180 ug/Kg
4) MCPP	9.348	106454	3.078	6152.000 ug/Kg
5) MCPA	NOT DETECTED	Expected RT = 9.698		
6) Dichloroprop	10.553	70028	0.005	9.670 ug/Kg
7) 2,4-D	10.967	328463	0.027	53.000 ug/Kg
8) 2,4,5 TP (Silvex)	12.055	76774	0.001	2.434 ug/Kg
9) 2,4,5 -T	12.337	283078	0.005	10.970 ug/Kg
27) 2,4 DB	12.846	288787	0.053	105.200 ug/Kg
28) Dinoseb	NOT DETECTED	Expected RT = 13.611		

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\032F3201.D  
Lab Smp Id: DLXDR101 Client Smp ID: SL52-6"  
Inj Date : 18-OCT-2000 02:36  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxdr101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Method Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 32  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.040	initial volume

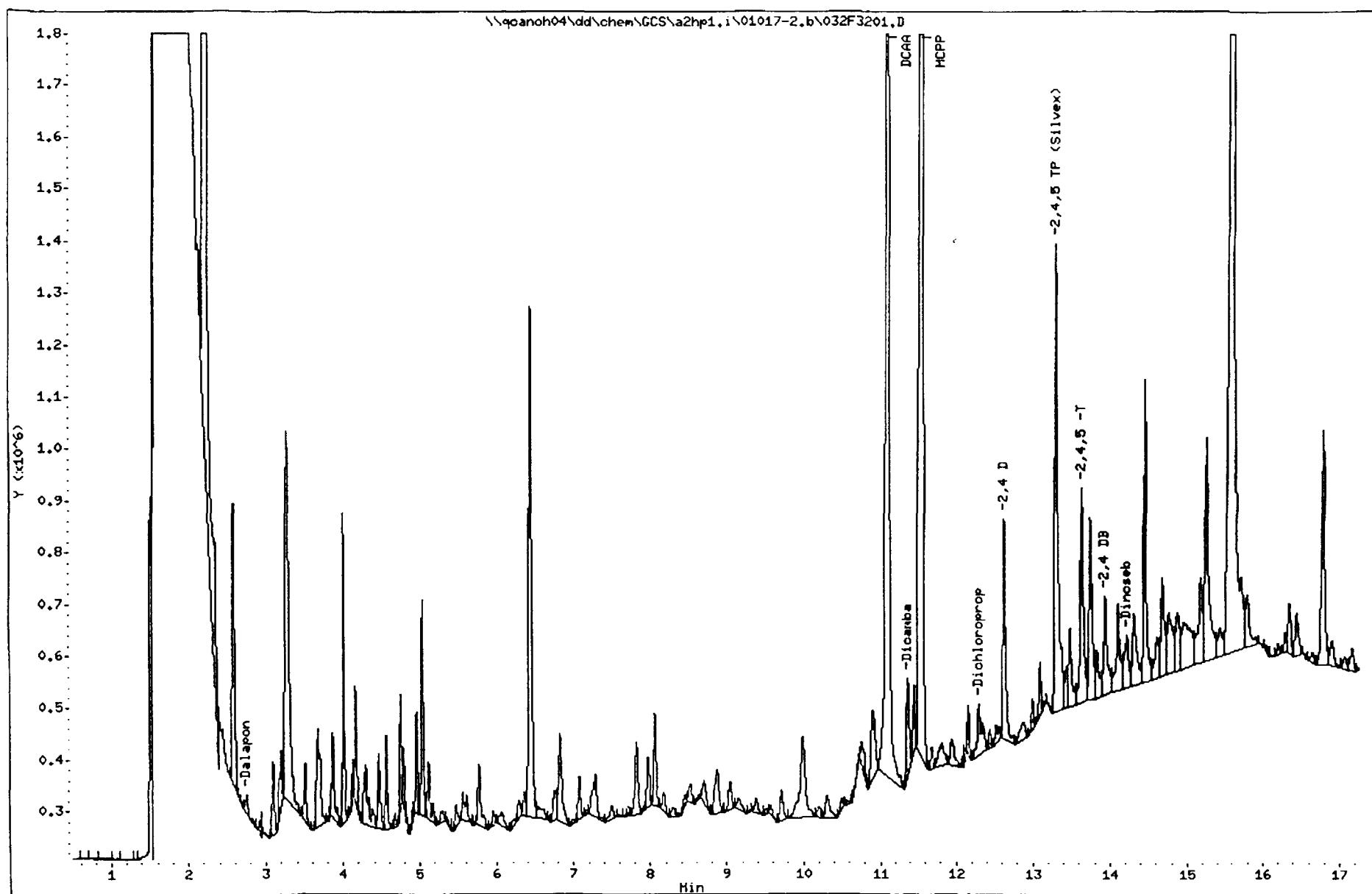
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.751	2.713	0.038	116189	0.00177	3.5453
2 DCAA	11.081	11.078	0.003	8713319	0.16466	16.466
3 Dicamba	11.367	11.364	0.003	435263	0.00240	4.7939
4 MCPP	11.526	11.560	-0.034	6360734	77.4210	154720
5 MCPA	Compound Not Detected.					
6 Dichloroprop	12.290	12.287	0.003	426373	0.00710	14.189
7 2,4 D	12.620	12.617	0.003	1080484	0.02175	43.457
8 2,4,5 TP (Silvex)	13.294	13.338	-0.044	2514811	0.01083	21.642
9 2,4,5 -T	13.630	13.631	-0.001	1196812	0.00634	12.663
10 2,4 DB	13.938	13.983	-0.045	627350	0.02984	59.630
11 Dinoseb	14.222	14.188	0.034	428609	0.00395	7.8845

Data File: \\qcanoh04\dd\chem\CCS\a2hp1.i\01017-2.b\032F3201.D  
Date : 18-OCT-2000 02:36  
Client ID: SL52-6\*  
Sample Info: dlxdr101  
Volume Injected (uL): 1.0  
Column phase: pestclp1

Instrument: a2hp1.i  
Operator: 001754  
Column diameter: 0.53

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## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:36  
Data File: //qcanoh04/dd/chem/GCS/a2hp1.i\01017-2.b\032F3201.D  
Lab Sample ID: DLXDR101  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.752	116189	0.002	3.545 ug/Kg
2) DCAA	11.082	8713319	0.165	16.466 ug/Kg
3) Dicamba	11.368	435263	0.002	4.794 ug/Kg
4) MCPP	11.527	15581342	77.421	154720.000 ug/Kg
5) MCPA	NOT DETECTED Expected RT = 11.880			
6) Dichloroprop	12.290	426373	0.007	14.189 ug/Kg
7) 2,4-D	12.620	1080484	0.022	43.457 ug/Kg
8) 2,4,5 TP (Silvex)	13.294	2514811	0.011	21.642 ug/Kg
9) 2,4,5 -T	13.631	1196812	0.006	12.663 ug/Kg
10) 2,4 DB	13.938	627350	0.030	59.630 ug/Kg
11) Dinoseb	14.223	428609	0.004	7.885 ug/Kg

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 006

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.16 / g

Date Received: 09/01/00

Work Order: DLXDW101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:21

QC Batch: 0286378

Client Sample Id: SL52-4'

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
94-75-7	2,4-D	100			U
93-72-1	2,4,5-TP (Silvex)	25			U
93-76-5	2,4,5-T	25			U

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\033F3301.D  
Lab Smp Id: DLXDW101 Client Smp ID: SL52-4'  
Inj Date : 18-OCT-2000 02:59  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxdw101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 33  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.160	initial volume

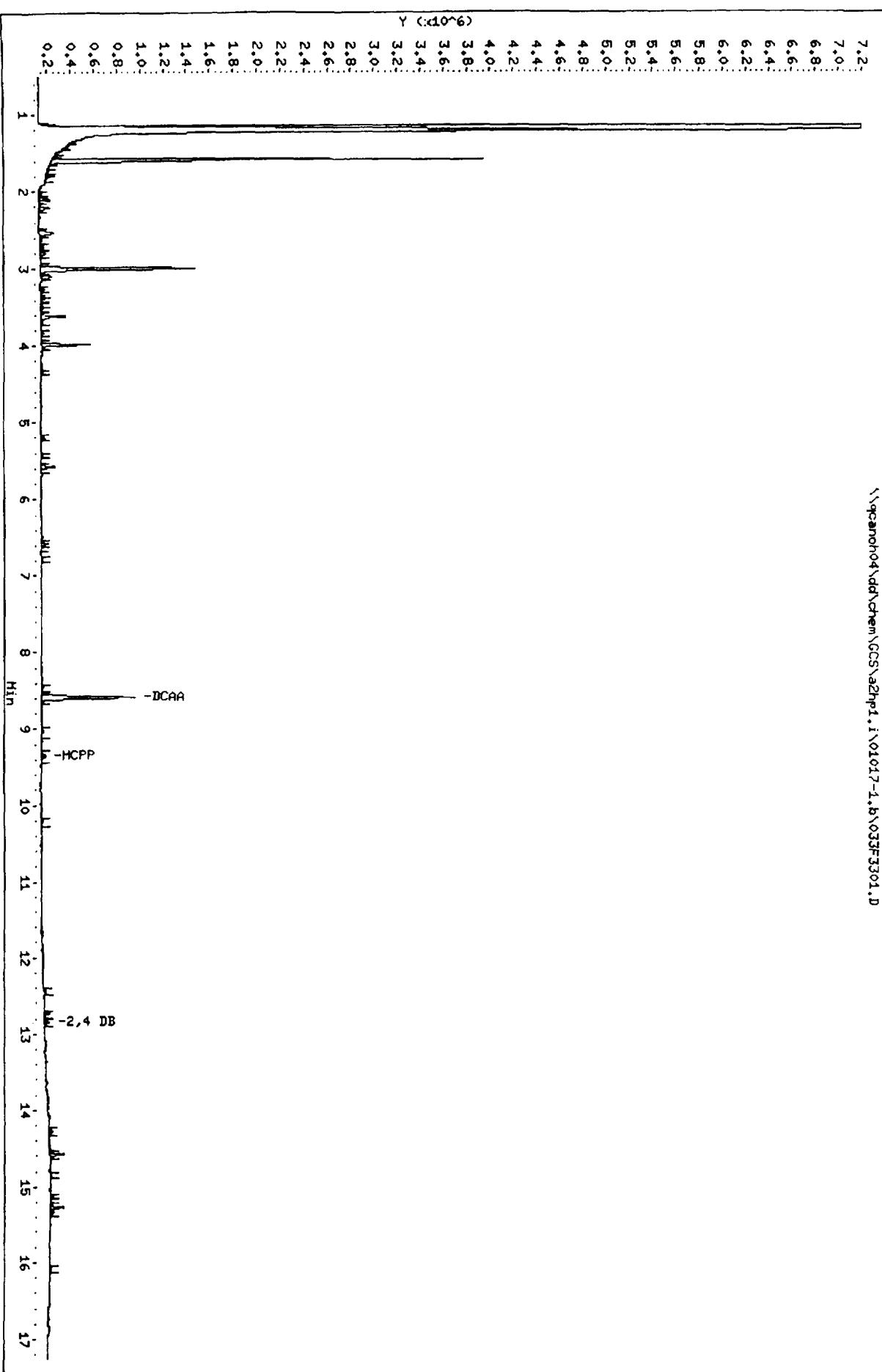
Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	( ng)	(ug/Kg)
1 Dalapon	**	-----	-----	-----	-----	-----
2 DCAA	8.580	8.576	0.004	1967951	0.15727	15.73
3 Dicamba				Compound Not Detected.		
4 MCPP	9.349	9.364	-0.015	41890	3.42720	6832
5 MCPA				Compound Not Detected.		
6 Dichloroprop				Compound Not Detected.		
7 2,4 D				Compound Not Detected.		
8 2,4,5 TP (Silvex)				Compound Not Detected.		
9 2,4,5 -T				Compound Not Detected.		
27 2,4 DB	12.848	12.820	0.028	70078	0.01277	25.46
28 Dinoseb				Compound Not Detected.		

Date : 18-OCT-2000 02:59  
 Client ID: SL52-4'  
 Sample Info: d1xdw101

Volume Injected (uL): 1.0  
 Column Phase: pestclp1

Instrument: a2hp1.i  
 Operator: 001754  
 Column diameter: 0.53

\\pcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-1.b\\033F3301.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:59  
Data File: //qcanch04/dd/chem/GCS\2hp1.i\01017-1.b\033F3301.D  
Lab Sample ID: DLXDW101  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANCH04\DD\chem\GCS\2hp1.i\01017-1.b\HERB.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	-----	-----	-----	-----
2) DCAA	8.581	1967951	0.157	15.730 ug/Kg
3) Dicamba	-----	-----	-----	-----
4) MCPP	9.350	124599	3.427	6832.000 ug/Kg
5) MCPA	-----	-----	-----	-----
6) Dichloroprop	-----	-----	-----	-----
7) 2,4 D	-----	-----	-----	-----
8) 2,4,5 TP (Silvex)	-----	-----	-----	-----
9) 2,4,5 -T	-----	-----	-----	-----
27) 2,4 DB	12.848	70078	0.013	25.460 ug/Kg
28) Dinoceb	-----	-----	-----	-----

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\A2hp1.i\01017-2.b\033F3301.D  
Lab Smp Id: DLXDW101 Client Smp ID: SL52-4'

Inj Date : 18-OCT-2000 02:59

Operator : 001754

Inst ID: a2hp1.i

Smp Info : dlxdw101

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\A2hp1.i\01017-2.b\HERBR.m

Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD

Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D

Als bottle: 33

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000000.000	final volume
Vi	1.000	injection volume
Vo	50.160	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.750	2.713	0.037	412446	0.00630	12.555
2 DCAA	11.081	11.078	0.003	8385860	0.15847	15.847
3 Dicamba	11.365	11.364	0.001	58795	<0.0	0.64601
4 MCPP	11.554	11.560	-0.006	2440	0.02970	59.208
5 MCPA	11.903	11.879	0.024	9390	0.08549	170.43
6 Dichloroprop	12.255	12.287	-0.032	21963	<0.0	0.72914
7 2,4 D	12.578	12.617	-0.039	36875	<0.0	1.4796
8 2,4,5 TP (Silvex)	13.374	13.338	0.036	153614	<0.0	1.3188
9 2,4,5 -T	13.608	13.631	-0.023	29384	<0.0	0.31015
10 2,4 DB	Compound Not Detected.					
11 Dinoseb	14.199	14.188	0.011	159537	0.00147	2.9277

Client ID: SL52-4'

Sample Info: dioxab101

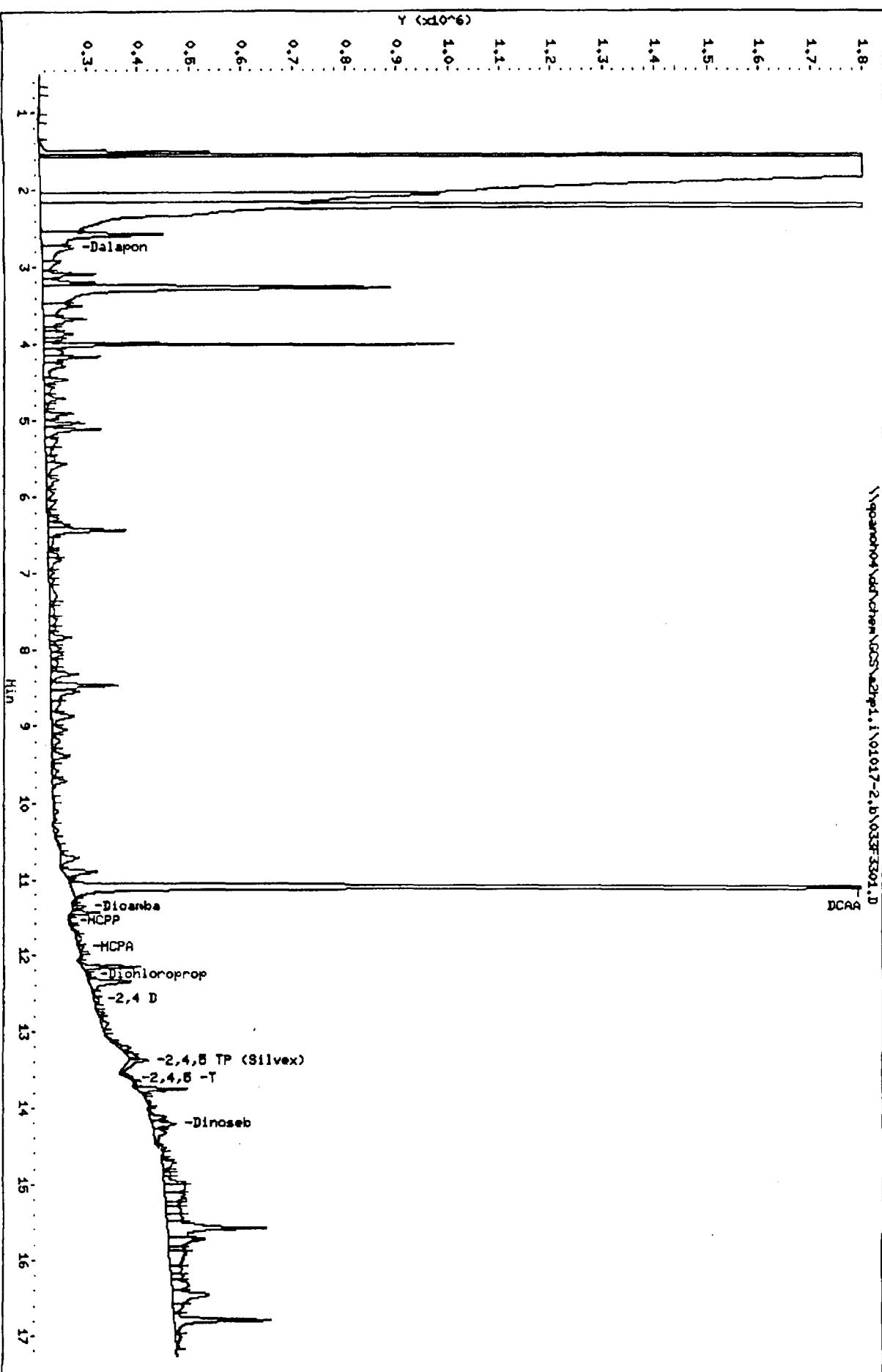
Volume Injected (uL): 1.0

Column phase: pestolpi

Instrument: 22pp1.i

Operator: 001754  
Column diameter: 0.53

\\pc02004\sl52\chem\GCSS\22pp1.1\01017-2.b\033F-3301.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 02:59  
 Data File: //qcanoh04/dd/chem/GCS\s2hp1.i\01017-2.b\033F3301.D  
 Lab Sample ID: DLXDWL01  
 Misc. Info:  
 Instrument: s2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\s2hp1.i\\01017-2.b\\HERBR.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.751	412446	0.006	12.555 ug/Kg
2) DCAA	11.081	8385860	0.158	15.847 ug/Kg
3) Dicamba	11.366	58795	0.000	0.646 ug/Kg
4) MCPP	11.555	7241	0.030	59.208 ug/Kg
5) MCPA	11.904	25726	0.085	170.430 ug/Kg
6) Dichloroprop	12.256	21963	0.000	0.729 ug/Kg
7) 2,4 D	12.578	36875	0.001	1.480 ug/Kg
8) 2,4,5 TP (Silvex)	13.375	153614	0.001	1.319 ug/Kg
9) 2,4,5 -T	13.608	29384	0.000	0.310 ug/Kg
10) 2,4 DB	NOT DETECTED Expected RT = 13.984			
11) Dinoseb	14.200	159537	0.001	2.928 ug/Kg

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 007

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.07 / g

Date Received: 09/01/00

Work Order: DLXDX101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:31

QC Batch: 0286378

Client Sample Id: SL53-6"

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg) ug/kg	Q	U
94-75-7	2,4-D	120		U
93-72-1	2,4,5-TP (Silvex)	29		U
93-76-5	2,4,5-T	29		U

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\A2hp1.i\01017-1.b\034F3401.D

Lab Smp Id: DLXDX101 Client Smp ID: SL53-6"

Inj Date : 18-OCT-2000 03:23

Operator : 001754

Inst ID: a2hp1.i

Smp Info : dlxdx101

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\A2hp1.i\01017-1.b\HERB.m

Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD

Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D

Als bottle: 34

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

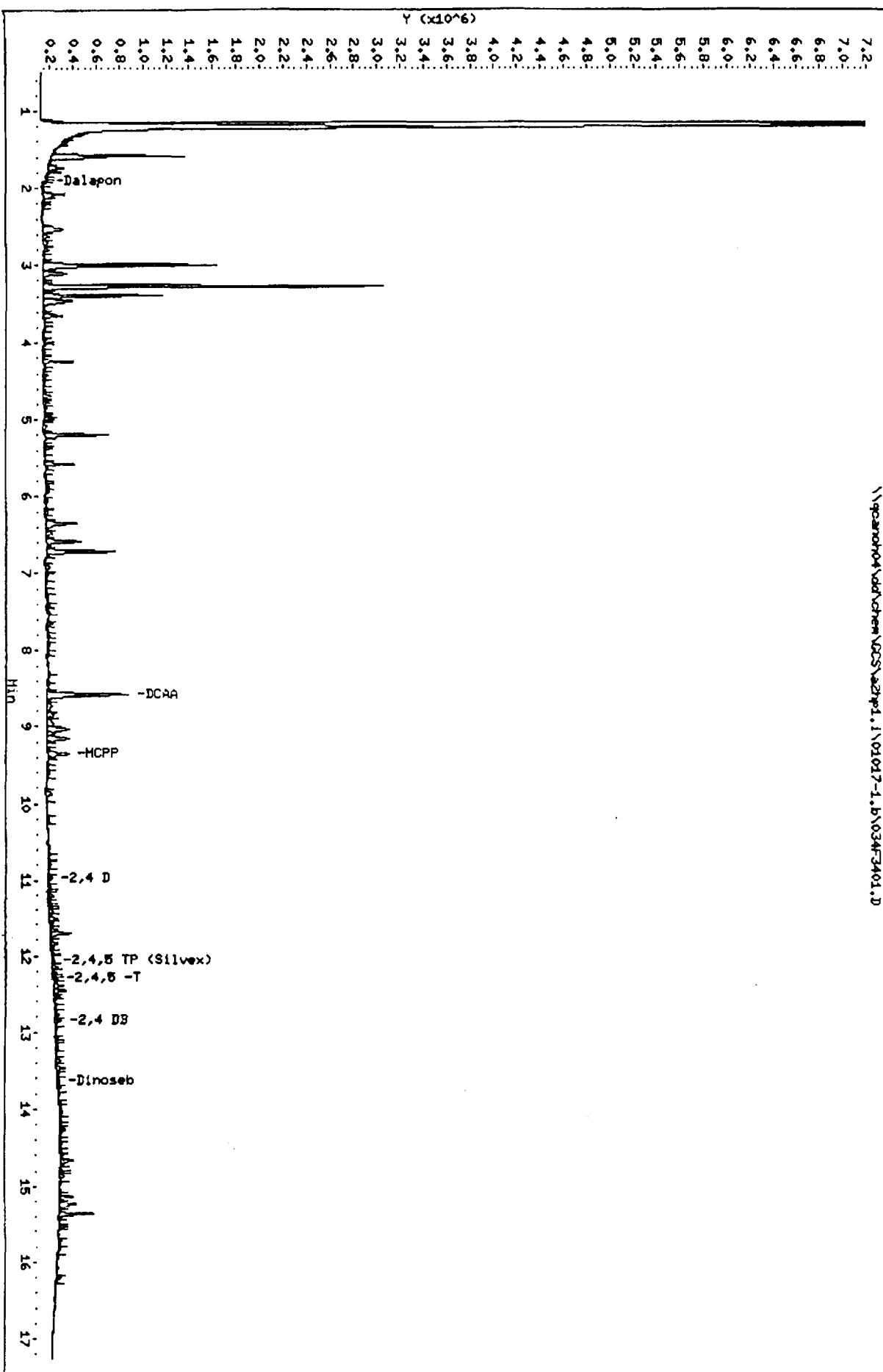
Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000000.000	final volume
Vi	1.000	injection volume
Vo	50.070	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ng)	FINAL (ug/Kg)
1 Dalapon	1.902	1.907	-0.005	29244	0.00182	3.642
2 DCAA	8.578	8.576	0.002	1728755	0.13815	13.82
3 Dicamba				Compound Not Detected.		
4 MCPP	9.349	9.364	-0.015	177182	14.4960	28950
5 MCPA				Compound Not Detected.		
6 Dichloroprop				Compound Not Detected.		
7 2,4 D	10.965	10.961	0.004	96011	0.00775	15.48
8 2,4,5 TP (Silvex)	12.057	12.051	0.006	68472	0.00109	2.170
9 2,4,5 -T	12.297	12.333	-0.036	69080	0.00134	2.676
27 2,4 DB	12.844	12.820	0.024	117877	0.02148	42.90
28 Dinoseb	13.629	13.611	0.018	57778	0.00170	3.386

Sample Info: dixabcl01  
Volume Injected (uL): 1.0  
Column phase: pestcpl

Instrument: actp1.i  
Operator: 001754  
Column diameter: 0.53

'\pcanon04\dd\chem\NDCS\actp1.1\01017-1.b\034F3401.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 03:23  
 Data File: //qcanch04/dd/chem/GCS\m2hp1.i\01017-1.b\03473401.D  
 Lab Sample ID: DLXDX101  
 Misc. Info:  
 Instrument: m2hp1.i  
 Method: \\QCANCH04\DD\chem\GCS\m2hp1.i\01017-1.b\HERB.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.903	29244	0.002	3.642 ug/Kg
2) DCAA	8.578	1728755	0.138	13.820 ug/Kg
3) Dicamba			NOT DETECTED	Expected RT = 8.902
4) MCPP	9.349	517443	14.496	28950.000 ug/Kg
5) MCPA			NOT DETECTED	Expected RT = 9.698
6) Dichloroprop			NOT DETECTED	Expected RT = 10.543
7) 2,4 D	10.966	96011	0.008	15.480 ug/Kg
8) 2,4,5 TP (Silvex)	12.058	68472	0.001	2.170 ug/Kg
9) 2,4,5 -T	12.298	69080	0.001	2.676 ug/Kg
27) 2,4 DB	12.844	117877	0.021	42.900 ug/Kg
28) Dinosab	13.629	57778	0.002	3.386 ug/Kg

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\034F3401.D  
Lab Smp Id: DLXDX101 Client Smp ID: SL53-6"  
Inj Date : 18-OCT-2000 03:23  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxdx101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 34  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.070	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.753	2.713	0.042	124439	0.00190	3.7947
2 DCAA	11.080	11.078	0.002	6690783	0.12644	12.644
3 Dicamba	11.363	11.364	-0.001	176761	<0.0	1.9456
4 MCPP	11.553	11.560	-0.005	23316	0.28380	566.80
5 MCPA	11.840	11.879	-0.039	47192	0.42965	858.09
6 Dichloroprop	12.281	12.287	-0.006	549334	0.00915	18.270
7 2,4 D	12.617	12.617	0.000	993410	0.01999	39.931
8 2,4,5 TP (Silvex)	13.331	13.338	-0.007	430977	0.00186	3.7066
9 2,4,5 -T	13.634	13.631	0.003	1046391	0.00354	11.065
10 2,4 DB	Compound Not Detected.					
11 Dinosab	Compound Not Detected.					

Data File: \\pcapn04\adchem\GCS\z2hp1.1\01017-2.b\034F3401.D  
Date : 18-OCT-2000 03:32:23  
Client ID: SL53-6"

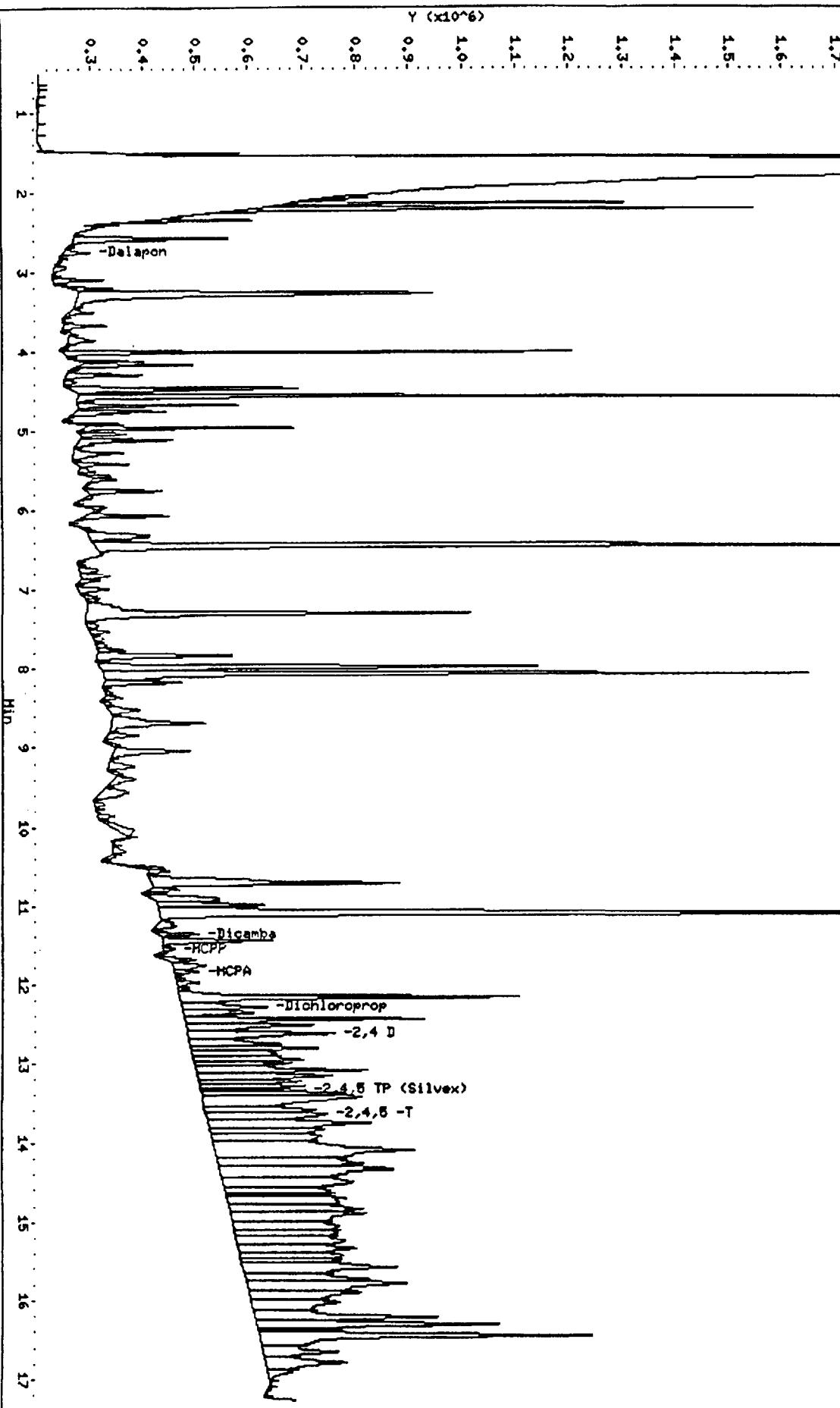
Page 3

Sample Info: dioxdet  
Volume Injected (uL): 1.0  
Column Phase: pestcol1

Instrument: z2hp1.i  
Operator: 001754  
Column diameter: 0.53

\\pcapn04\adchem\GCS\z2hp1.1\01017-2.b\034F3401.D

Y ( $\times 10^{-6}$ )



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 03:23  
Data File: //qcanoh04/dd/chem/GCS/a2hp1.i\01017-2.b\034F3401.D  
Lab Sample ID: DLKDX101  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HRRBR.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.756	124439	0.002	3.795 ug/Kg
2) DCAA	11.080	6690783	0.126	12.644 ug/Kg
3) Dicamba	11.363	176761	0.001	1.946 ug/Kg
4) MCPP	11.555	39250	0.284	566.800 ug/Kg
5) MCPA	11.840	99515	0.430	858.090 ug/Kg
6) Dichloroprop	12.282	549334	0.009	18.270 ug/Kg
7) 2,4 D	12.618	993410	0.020	39.931 ug/Kg
8) 2,4,5 TP (Silvex)	13.332	430977	0.002	3.707 ug/Kg
9) 2,4,5 -T	13.634	1046391	0.006	11.065 ug/Kg
10) 2,4 DB	NOT DETECTED	Expected RT = 13.984		
11) Dinoceb	NOT DETECTED	Expected RT = 14.188		

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 008

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.06 / g

Date Received: 09/01/00

Work Order: DLXE0101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:24

QC Batch: 0286378

Client Sample Id: SL54-6"

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
94-75-7	2,4-D	110			U
93-72-1	2,4,5-TP (Silvex)	26			U
93-76-5	2,4,5-T	26			U

FORM I

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\035F3501.D  
Lab Smp Id: DLXE0101 Client Smp ID: SL54-6"  
Inj Date : 18-OCT-2000 03:46  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxe0101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 35  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

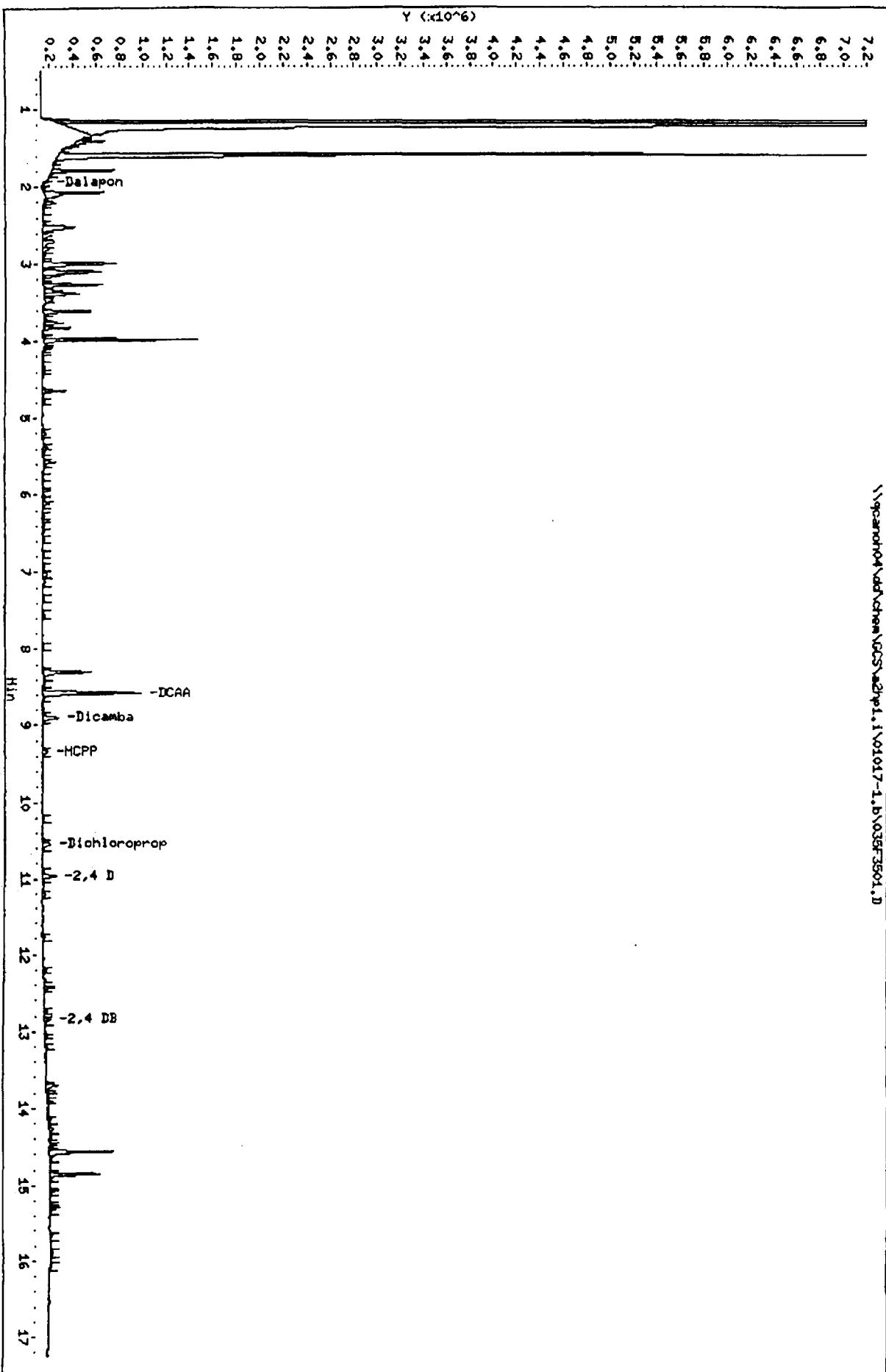
Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.060	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ng)	FINAL (ug/Kg)
1 Dalapon	1.938	1.907	0.031	40795	0.00254	5.082
2 DCAA	8.377	8.376	0.001	2039050	0.16295	16.39
3 Dicamba	8.904	8.902	0.002	365955	0.00734	14.66
4 MCPP	9.345	9.364	-0.019	44542	3.64417	7280
5 MCPA				Compound Not Detected.		
6 Dichloroprop	10.545	10.543	0.002	225187	0.01556	31.08
7 2,4 D	10.964	10.961	0.003	319302	0.02578	51.50
8 2,4,5 TP (Silvex)				Compound Not Detected.		
9 2,4,5 -T				Compound Not Detected.		
27 2,4 DB	12.846	12.820	0.026	100000	0.01622	36.40
28 Dinoesab				Compound Not Detected.		

Data File: \\pcapath04\ddchem\NCS\2hp1.1\01017-1.b\035F3501.D  
Date : 18-OCT-2000 03:46  
Client ID: SL54-6  
Sample Info: dxe0101  
Volume Injected (µL): 1.0  
Column phase: pesticpi

Page 3

Instrument: 2hp1.1  
Operator: 001754  
Column diameter: 0.53  
\\pcapath04\ddchem\NCS\2hp1.1\01017-1.b\035F3501.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 03:46  
 Data File: //qcanoh04/dd/chem/GCS\2hp1.i\01017-1.b\035F3501.D  
 Lab Sample ID: DLXE0101  
 Misc. Info:  
 Instrument: 2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\2hp1.i\\01017-1.b\\HERB.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.938	40795	0.003	5.082 ug/Kg
2) DCAA	8.577	2039050	0.163	16.290 ug/Kg
3) Dicamba	8.904	365955	0.007	14.660 ug/Kg
4) MCPP	9.346	111860	3.644	7280.000 ug/Kg
5) MCPA			NOT DETECTED	Expected RT = 9.698
6) Dichloroprop	10.546	225187	0.016	31.080 ug/Kg
7) 2,4 D	10.964	319302	0.026	51.500 ug/Kg
8) 2,4,5 TP (Silvex)			NOT DETECTED	Expected RT = 12.051
9) 2,4,5 -T			NOT DETECTED	Expected RT = 12.334
27) 2,4 DB	12.847	100000	0.018	36.400 ug/Kg
28) Dinosab			NOT DETECTED	Expected RT = 13.611

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hpl.i\01017-2.b\035F3501.D  
Lab Smp Id: DLXE0101 Client Smp ID: SL54-6"  
Inj Date : 18-OCT-2000 03:46  
Operator : 001754 Inst ID: a2hpl.i  
Smp Info : dlxe0101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hpl.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 35  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.060	initial volume

CONCENTRATIONS

Compounds	RT	EXP RT	DLT RT	RESPONSE	( mg)	FINAL (ug/Kg)
1 Dalapon	2.752	2.713	0.039	88640	0.00135	2.7036
2 DCAA	11.078	11.078	0.000	8775108	0.16583	16.583
3 Dicamba	11.366	11.364	0.002	1030716	0.00568	11.348
4 MCPP	11.502	11.560	-0.058	15188	0.18486	369.28
5 MCPA	11.923	11.879	0.044	8610	0.07839	156.59
6 Dichloroprop	12.286	12.287	0.001	1074199	0.01789	35.733
7 2,4 D	12.618	12.617	0.001	1136083	0.02286	45.675
8 2,4,5 TP (Silvex)	13.292	13.338	-0.046	582538	0.00251	5.0111
9 2,4,5 -T	13.631	13.631	0.000	103220	<0.0	1.0917
10 2,4 DB	13.941	13.983	-0.042	15760	0.00075	1.4974
11 Dinosab	14.218	14.188	0.030	76481	<0.0	1.4063

Client ID: SL54-6"  
Sample Info: diox0101  
Volume Injected (uL): 1.0  
Column Phase: pestcolp1

Instrument: 22hp1.1

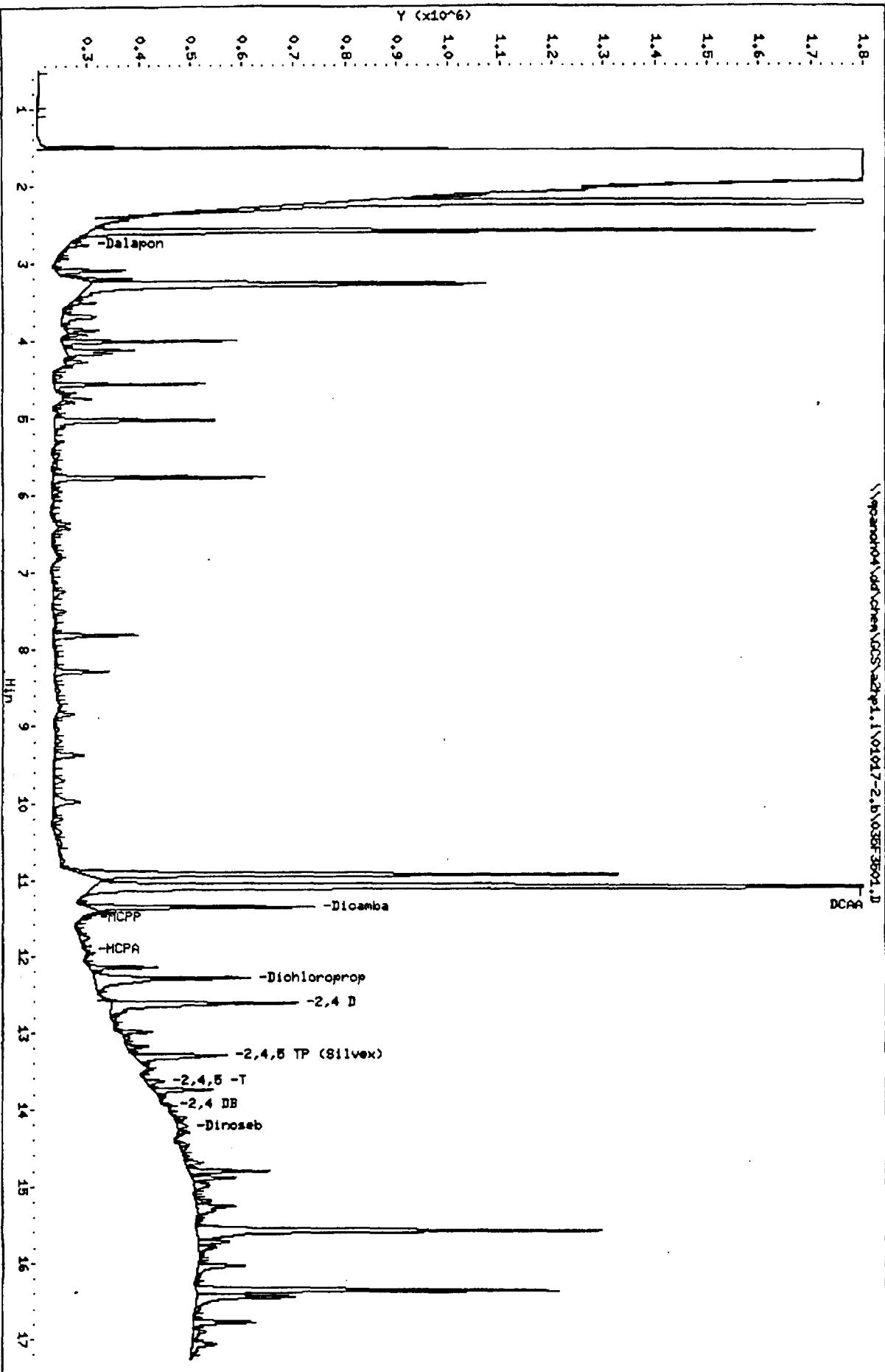
Operator: 001754  
Column diameter: 0.53

Y ( $\times 10^{-6}$ )

1.8  
1.7  
1.6  
1.5  
1.4  
1.3  
1.2  
1.1  
1.0  
0.9  
0.8  
0.7  
0.6  
0.5  
0.4  
0.3

\\pcanon04\dat\chen\GCS\2hp1.i\01017-2.b\035F3501.d

DCAG



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 03:46  
 Data File: //qcanoh04/dd/chem/GCS/a2hp1.i\01017-2.b\035F3501.D  
 Lab Sample ID: DLXK0101  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-2.b\HRRBR.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.752	88640	0.001	2.704 ug/Kg
2) DCAA	11.078	8775108	0.166	16.583 ug/Kg
3) Dicamba	11.367	1030716	0.006	11.348 ug/Kg
4) MCPP	11.502	29786	0.185	369.280 ug/Kg
5) MCPA	11.923	12971	0.078	156.590 ug/Kg
6) Dichloroprop	12.288	1074199	0.018	35.733 ug/Kg
7) 2,4 D	12.618	1136083	0.023	45.675 ug/Kg
8) 2,4,5 TP (Silvex)	13.292	582538	0.003	3.011 ug/Kg
9) 2,4,5 -T	13.632	103220	0.001	1.092 ug/Kg
10) 2,4 DB	13.942	15760	0.001	1.497 ug/Kg
11) Dinoseb	14.218	76481	0.001	1.406 ug/Kg

RMT

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SO

Lab Sample ID:A0J110192 009

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50.03 / g

Date Received: 09/01/00

Work Order: DLXE3101

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture #:14

QC Batch: 0286378

Client Sample Id: SL55-6"

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q	U
94-75-7	2,4-D	93			U
93-72-1	2,4,5-TP (Silvex)	23			U
93-76-5	2,4,5-T	23			U

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\036F3601.D  
Lab Smp Id: DLXE3101 Client Smp ID: SL55-6"  
Inj Date : 18-OCT-2000 04:09  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxe3101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 36  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.030	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon				Compound Not Detected.		
2 DCAA	8.577	8.576	0.001	2063597	0.16491	16.49
3 Dicamba	8.903	8.902	0.001	155280	0.00311	6.223
4 MCPP	9.345	9.364	-0.019	27480	2.24826	4494
5 MCRA				Compound Not Detected.		
6 Dichloroprop				Compound Not Detected.		
7 2,4 D				Compound Not Detected.		
8 2,4,5 TP (Silvax)				Compound Not Detected.		
9 2,4,5 -T	12.386	12.333	0.053	59527	0.00115	2.308
27 2,4 DB	12.846	12.820	0.026	44884	0.00818	16.35
28 Dinoseb				Compound Not Detected.		

Data File: \\pcanon04\dd\chem\GC\2\2rp1.i\01017-1.b\036F3601.D  
Date : 18-OCT-2000 04:09  
Client ID: SLB5-6"

Page 3

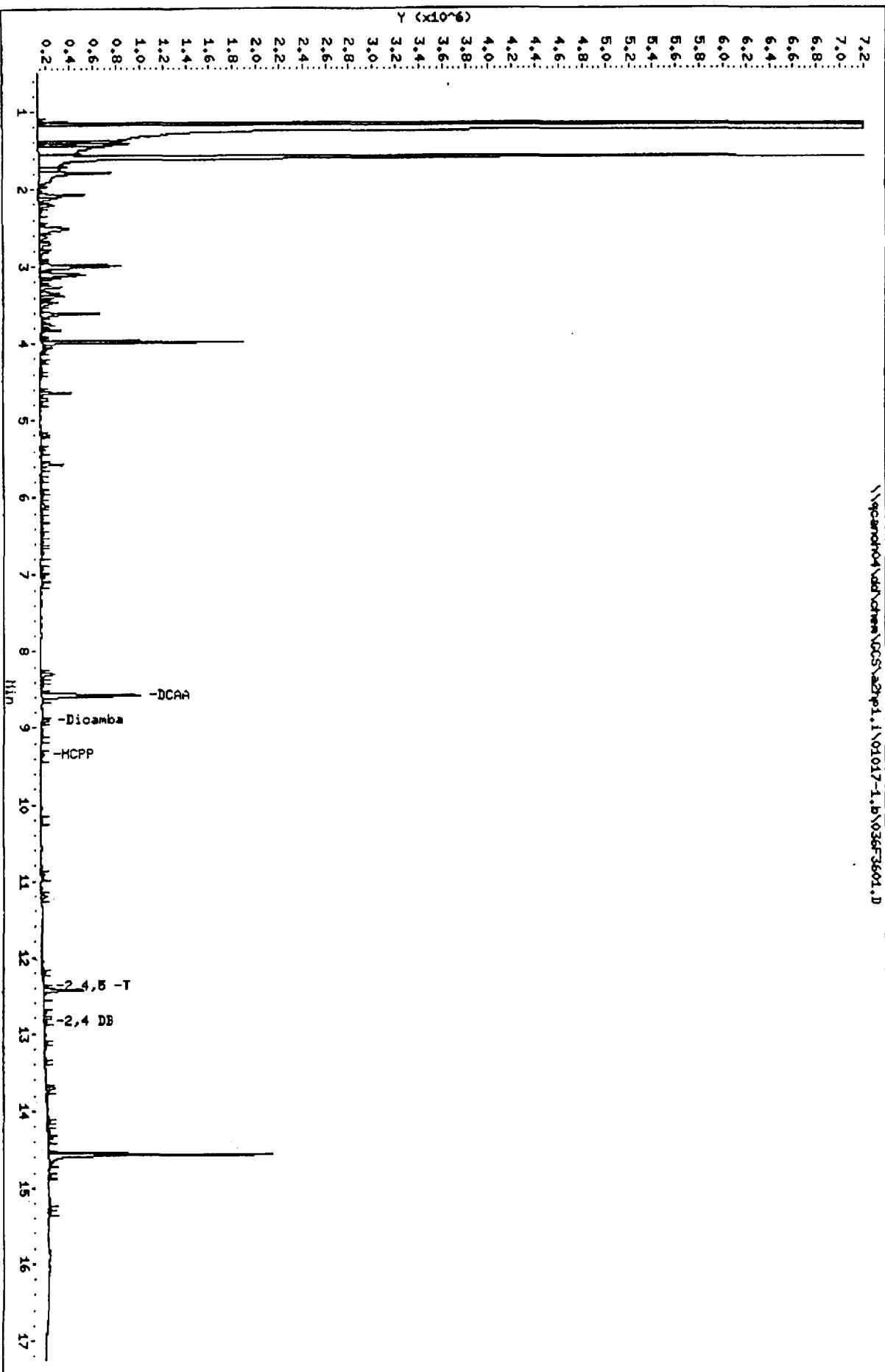
Sample Info: dixx3101

Volume Injected (µL): 1.0

Column phase: pestolpi

\\pcanon04\dd\chem\GC\2\2rp1.i\01017-1.b\036F3601.D

Instrument: 2rp1.i  
Operator: 001754  
Column diameter: 0.53



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 04:09  
Data File: //qcanoh04/dd/chem/GCS/a2hpl.i\01017-1.b\036F3601.D  
Lab Sample ID: DLXH3101  
Misc. Info:  
Instrument: a2hpl.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hpl.i\\01017-1.b\\HERB.ms  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon				
2) DCAA	8.578	2063597	0.165	16.490 ug/Kg
3) Dicamba	8.903	155280	0.003	6.223 ug/Kg
4) MCPP	9.346	79642	2.248	4494.000 ug/Kg
5) MCPA				
6) Dichloroprop				
7) 2,4 D				
8) 2,4,5 TP (Silvex)				
9) 2,4,5 -T	12.387	59527	0.001	2.308 ug/Kg
27) 2,4 DB	12.847	44884	0.008	16.350 ug/Kg
28) Dinoseb				
				NOT DETECTED Expected RT = 13.611

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\036F3601.D  
Lab Smp Id: DLXE3101 Client Smp ID: SL55-6"  
Inj Date : 18-OCT-2000 04:09  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dlxe3101  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 36  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.030	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					( ng)	(ug/Kg)
1 Dalapon	2.751	2.713	0.038	90747	0.00139	2.7695
2 DCAA	11.079	11.078	0.001	8640134	0.16328	16.328
3 Dicamba	11.365	11.364	0.001	463705	0.00236	5.1082
4 MCPP	11.563	11.560	0.003	3241	0.03945	78.850
5 MCPA	11.932	11.879	0.053	13064	0.11894	237.73
6 Dichloroprop	12.284	12.287	-0.003	95172	0.00158	3.1678
7 2,4 D	12.655	12.617	0.038	386968	0.00779	15.567
8 2,4,5 TP (Silvex)	13.293	13.338	-0.045	2056010	0.00885	17.697
9 2,4,5 -T	13.629	13.631	-0.002	126891	<0.0	1.3428
10 2,4 DB	14.036	13.983	0.053	92260	0.00439	8.7711
11 Dinoseb	14.200	14.188	0.012	417059	0.00384	7.6735

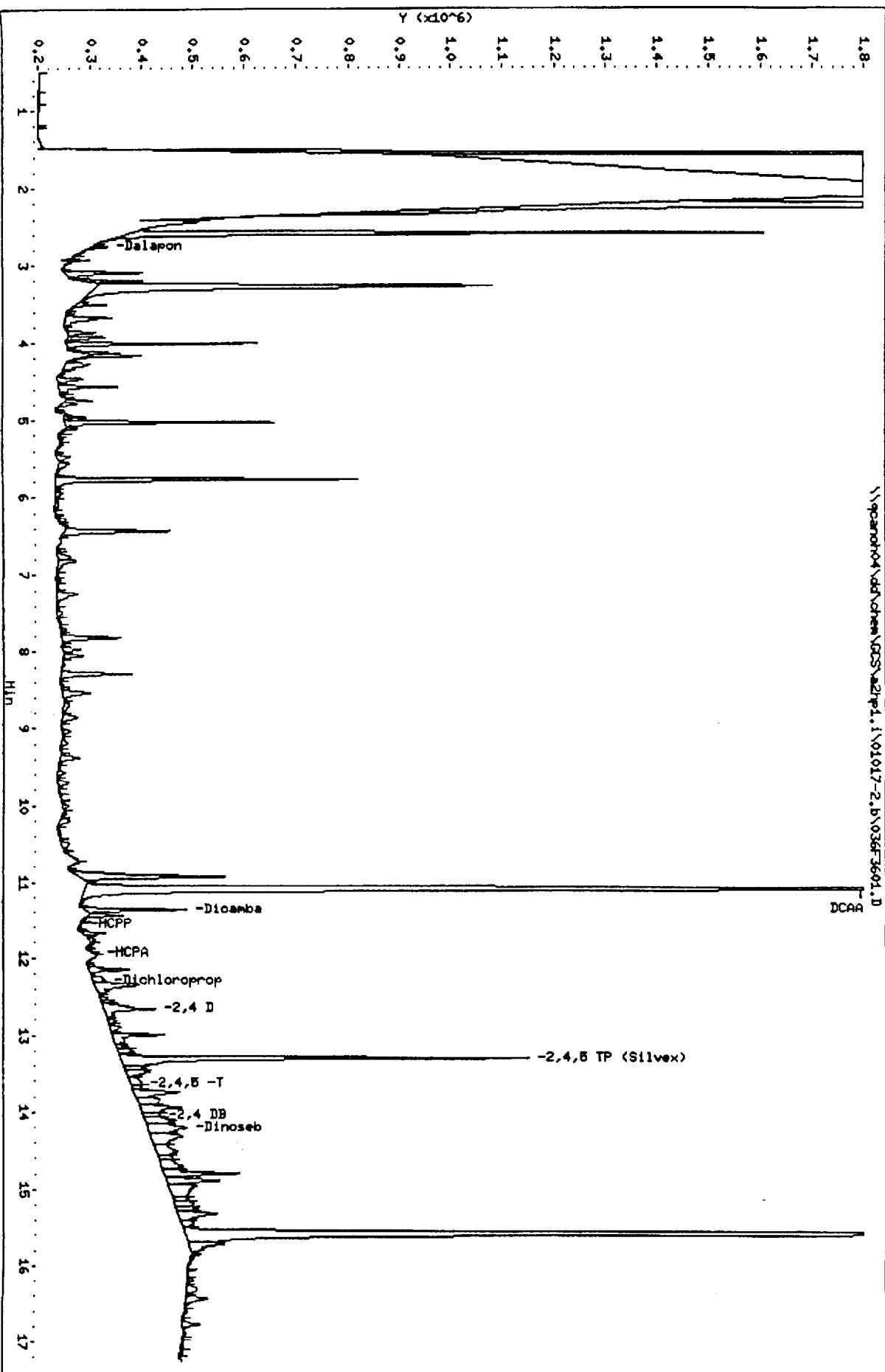
Data File: \\pcanon04\dd\chem\QCCSV\2hp1.1\010117-2.b\036F3601.D  
Date : 18-OCT-2000 04:09  
Client ID: SL55-6"

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Sample Info: dixa3101  
Volume Injected (uL): 1.0  
Column phase: pestolpi

Instrument: 22hp1.i  
Operator: 004754  
Column diameter: 0.53

\\pcanon04\dd\chem\QCCSV\2hp1.1\010117-2.b\036F3601.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 04:09  
 Data File: //qcarnoh04/dd/chess/GCS/a2hp1.1/01017-2.b/03673601.D  
 Lab Sample ID: DLXK3101  
 Misc. Info:  
 Instrument: a2hp1.1  
 Method: \\QCARNOH04\DD\chess\GCS\ a2hp1.1\01017-2.b\HEBR.M  
 Dilution Factor: 1

Compound	RT min	Area	Amount	Conc ug/kg
1) Dalepon	2.752	90747	0.001	2.769 ug/kg
2) DCIA	11.079	6640134	0.163	16.328 ug/kg
3) Diomaba	11.366	463705	0.003	5.108 ug/kg
4) MCPP	11.563	7341	0.039	76.450 ug/kg
5) MCPA	11.933	25117	0.119	237.730 ug/kg
6) Dichloroprop	12.284	95172	0.002	3.168 ug/kg
7) 2,4-D	12.656	386968	0.008	15.567 ug/kg
8) 2,4,5 TP (Siliver)	13.293	2056010	0.009	17.697 ug/kg
9) 2,4,5 -T	13.629	1266891	0.001	1.343 ug/kg
10) 2,4 DB	14.037	92260	0.004	8.771 ug/kg
11) Dinosob	14.200	417059	0.004	7.673 ug/kg



## ***STANDARD DATA***

Report Date: 19-Oct-2000 06:16

### Calibration History

Method : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Start Cal Date: 21-JUL-2000 01:29  
End Cal Date : 17-OCT-2000 17:19  
Last Cal Level: 6  
Last Cal Type : Initial Calibration

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.1000		
27-JUL-2000 14:23	1-4-nitro	\chem\can\gcs\a2hp1.i\00727.b\013f1301.d
27-SEP-2000 13:29	2-penta	\chem\can\gcs\a2hp1.i\00927.b\013f1301.d
17-OCT-2000 15:23	1-corp	003F0301.D
Cal Level: 2 , Cal Amount: 0.5000		
27-JUL-2000 14:46	1-4-nitro	\chem\can\gcs\a2hp1.i\00727.b\014f1401.d
27-SEP-2000 13:52	2-penta	\chem\can\gcs\a2hp1.i\00927.b\014f1401.d
17-OCT-2000 15:46	1-corp	004F0401.D
Cal Level: 3 , Cal Amount: 1.000		
27-JUL-2000 15:09	1-4-nitro	\chem\can\gcs\a2hp1.i\00727.b\015f1501.d
27-SEP-2000 14:15	2-penta	\chem\can\gcs\a2hp1.i\00927.b\015f1501.d
17-OCT-2000 16:09	1-corp	005F0501.D
Cal Level: 4 , Cal Amount: 2.000		
27-JUL-2000 15:32	1-4-nitro	\chem\can\gcs\a2hp1.i\00727.b\016f1601.d
27-SEP-2000 14:39	2-penta	\chem\can\gcs\a2hp1.i\00927.b\016f1601.d
17-OCT-2000 16:32	1-corp	006F0601.D
Cal Level: 5 , Cal Amount: 5.000		
27-JUL-2000 15:55	1-4-nitro	\chem\can\gcs\a2hp1.i\00727.b\017f1701.d
27-SEP-2000 15:02	2-penta	\chem\can\gcs\a2hp1.i\00927.b\017f1701.d
17-OCT-2000 16:55	1-corp	007F0701.D
Cal Level: 6 , Cal Amount: 0.0000		
17-OCT-2000 17:19	1-corp	008F0801.D

#### Continuing Calibration

18-OCT-2000 06:05	1-corp	041F4101.D
17-OCT-2000 23:54	1-corp	025F2501.D

|17-OCT-2000 16:32 |1-corp

|006F0601.D

Report Date: 19-Oct-2000 06:18

#### Calibration History

Method : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Start Cal Date: 21-JUL-2000 01:29  
End Cal Date : 17-OCT-2000 17:19  
Last Cal Level: 6  
Last Cal Type : Initial Calibration

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.10000		
27-JUL-2000 14:23   1-4-nitro   013f1301.d		
27-SEP-2000 13:29	2-penta	013f1301.d
17-OCT-2000 15:23	1-corp	003F0301.D
Cal Level: 2 , Cal Amount: 0.50000		
27-JUL-2000 14:46	1-4-nitro	014f1401.d
27-SEP-2000 13:52	2-penta	014f1401.d
17-OCT-2000 15:46	1-corp	004F0401.D
Cal Level: 3 , Cal Amount: 1.0000		
27-JUL-2000 15:09	1-4-nitro	015f1501.d
27-SEP-2000 14:15	2-penta	015f1501.d
17-OCT-2000 16:09	1-corp	005F0501.D
Cal Level: 4 , Cal Amount: 2.0000		
27-JUL-2000 15:32	1-4-nitro	016f1601.d
27-SEP-2000 14:39	2-penta	016f1601.d
17-OCT-2000 16:32	1-corp	006F0601.D
Cal Level: 5 , Cal Amount: 5.0000		
27-JUL-2000 15:55	1-4-nitro	017f1701.d
27-SEP-2000 15:02	2-penta	017f1701.d
17-OCT-2000 16:55	1-corp	007F0701.D
Cal Level: 6 , Cal Amount: 0.00000		
17-OCT-2000 17:19	1-corp	008F0801.D

#### Continuing Calibration

18-OCT-2000 06:05	1-corp	041F4101.D
17-OCT-2000 23:54	1-corp	025F2501.D

17-OCT-2000 16:32	1-corp	006F0601.D
13-OCT-2000 20:17	1-corp	017f1701.d
13-OCT-2000 15:38	1-corp	005f0501.d
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## STL - North Canton

## INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 01:29  
 End Cal Date : 17-OCT-2000 17:19  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.04  
 Integrator : Falcon  
 Method file : \\qcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-1.b\\HERB.m  
 Cal Date : 18-Oct-2000 13:10 jacksons  
 Curve Type : Average

## Calibration File Names:

Level 1: \\qcanoh04\\dd\\chem\\can\\gcs\\a2hp1.i\\00727.b\\013f1301.d  
 Level 2: \\qcanoh04\\dd\\chem\\can\\gcs\\a2hp1.i\\00727.b\\014f1401.d  
 Level 3: \\qcanoh04\\dd\\chem\\can\\gcs\\a2hp1.i\\00727.b\\015f1501.d  
 Level 4: \\qcanoh04\\dd\\chem\\can\\gcs\\a2hp1.i\\00727.b\\016f1601.d  
 Level 5: \\qcanoh04\\dd\\chem\\can\\gcs\\a2hp1.i\\00727.b\\017f1701.d  
 Level 6: \\qcanoh04\\dd\\chem\\GCS\\a2hp1.i\\01017-1.b\\008F0801.D

Compound	0.10000	0.50000	1.000	2.000	5.000	0.000e+00	—	t RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
1 Dalapon	16438100	16700200	16177275	15595213	15568913	15726772	16034412	2.966
31 Pentachlorophenol	163578000	162051700	164971800	167213975	163571500	+++++	164277395	1.181
3 Dicamba	52718000	53251350	51193225	48384900	47704969	45996416	49874810	5.893
4 MCPP	10190	12810	13289	12417	12455	12176	12223	8.741
5 MCPA	21201	21627	19927	17813	17515	16861	19157	10.607
6 Dichloroprop	15353250	15596725	15101350	13894038	13754897	13128670	14471488	6.972
7 2,4-D	12015850	12484450	13000288	12032306	12598363	12183045	12385717	3.096
8 2,4,5 TP (Silvex)	54187800	63277300	65501300	63577900	66499450	65118663	63027069	7.133
9 2,4,5-T	46153600	50065200	48450600	50708250	57063788	56925131	51561095	8.714
27 2,4 DB	5259250	5638400	5661913	5232194	5619066	5518516	5488223	3.540
28 Dinoseb	39522667	44728167	32356250	28395875	30055813	29432281	34081842	19.289
32 Picloram	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
33 4-Nitrophenol	11535320	9944070	10567282	10128869	10362578	+++++	10507624	5.909
S 2 DCAA	13936400	13885550	13000050	11872938	11432041	10953372	12513392	10.208

## STL - North Canton

## INITIAL CALIBRATION DATA

Start Cal Date : 21-JUL-2000 01:29  
 End Cal Date : 17-OCT-2000 17:19  
 Quant Method : ESTD  
 Origin : Disabled  
 Target Version : 4.04  
 Integrator : Falcon  
 Method file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
 Cal Date : 18-Oct-2000 14:22 jacksons  
 Curve Type : Average

## Calibration File Names:

Level 1: \\qcanoh04\dd\chem\can\gcs\a2hp1.i\00727-r.b\013f1301.d  
 Level 2: \\qcanoh04\dd\chem\can\gcs\a2hp1.i\00727-r.b\014f1401.d  
 Level 3: \\qcanoh04\dd\chem\can\gcs\a2hp1.i\00727-r.b\015f1501.d  
 Level 4: \\qcanoh04\dd\chem\can\gcs\a2hp1.i\00727-r.b\016f1601.d  
 Level 5: \\qcanoh04\dd\chem\can\gcs\a2hp1.i\00727-r.b\017f1701.d  
 Level 6: \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\008F0801.D

Compound	0.10000	0.50000	1.000	2.000	5.000	0.000e+00			
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRP	# RSD	
1 Dalapon	65464500	67683750	65549800	65185038	64874081	64204706	65493646	1.799	
27 Picloram	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 Pentachlorophenol	491515800	517021000	562114300	580616500	587155475	+++++	547684615	7.609	
3 Dicamba	177604300	187351550	189118400	180696975	179774006	174118503	181443956	3.171	
4 MCPP	119709	98547	83862	60835	62989	59004	82158	28.611	<-
5 MCPA	167378	133242	108861	88670	82605	78280	109839	31.657	<-
6 Dichloroprop	61618950	59683000	64533913	60270619	59138997	55065314	60051799	5.182	
7 2,4-D	45843750	47841125	52169700	49729050	52393013	50144753	49686898	5.082	
8 2,4,5 TP (Silvex)	183486800	211849900	240501600	239198075	259481588	258797825	232219298	12.711	
9 2,4,5 -T	153119200	165193400	195703850	182997125	217598575	218654519	188876111	14.269	
10 2,4 DB	22714000	19343650	20987463	19587406	21566081	21948664	21024544	6.343	
11 Dinoseb	136972333	105212000	108074000	97263583	101068333	102422385	108635439	13.204	
28 4-Nitroanisole	2107370	1768345	1812002	1661954	1649191	+++	1799572	10.311	
\$ 2 DCAA	55836100	57136675	55210000	51300800	50195150	47826594	52917553	6.944	

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\003F0301.D

Lab Smp Id: c527

Inj Date : 17-OCT-2000 15:23

Operator : 001754

Inst ID: a2hp1.i

Smp Info : c527.,1,1

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m

Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD

Cal Date : 27-JUL-2000 14:23 Cal File: 013f1301.d

Als bottle: 3 Calibration Sample, Level: 1

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	1.905	1.907	-0.002	164381	0.01000	0.009851
2 DCAA	8.578	8.576	0.002	278728	0.02000	0.02159
3 Dicamba	8.903	8.902	0.001	527180	0.01000	0.01040
4 MCPP	9.365	9.364	0.001	20380	2.00000	1.614
5 MCPA	9.698	9.698	0.000	42401	2.00000	2.161
6 Dichloroprop	10.545	10.543	0.002	307065	0.02000	0.02059
7 2,4 D	10.963	10.961	0.002	240317	0.02000	0.01864
8 2,4,5 TP (Silvex)	12.053	12.051	0.002	270939	0.00500	0.004186
9 2,4,5 -T	12.137	12.133	0.004	230768	0.00500	0.004283
27 2,4 DB	12.827	12.820	0.007	105185	0.02000	0.01784
28 Dinoseb	13.613	13.611	0.002	118568	0.00300	0.003722

Date : 17-OCT-2000 15:23

Client ID:

Sample Info: c527,,1,1

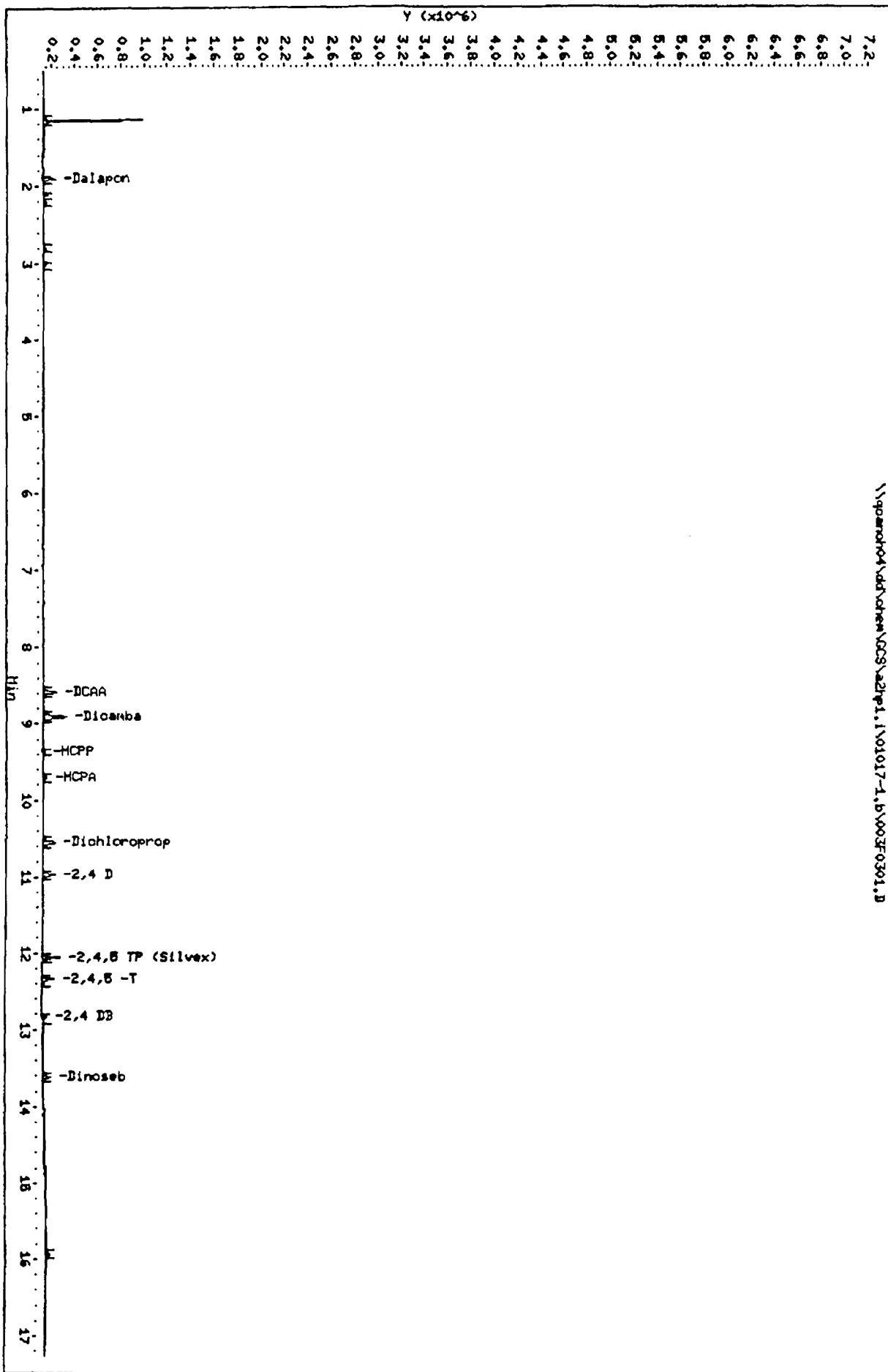
Column phase: pestolpi

\\qpcmh04\dat\chem\GC3\z2fpi.1\01017-1.b\0003F0301.D

Instrument: z2fpi.i

Operator: 001764

Column diameter: 0.63



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 15:23  
Data File: //QCANOH04/DD/chem/GCS/a2hp1.i/01017-1.b/003F0301.D  
Lab Sample ID: c527  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-1.b\\MERR.M  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.906	164381	0.010	0.010
2) DCAA	8.578	278728	0.022	0.022
3) Dicamba	8.903	527180	0.010	0.010
4) MCPP	9.365	42809	1.614	1.614
5) MCPA	9.698	114764	2.161	2.161
6) Dichloroprop	10.545	307065	0.021	0.021
7) 2,4 D	10.963	240317	0.019	0.019
8) 2,4,5 TP (Silvex)	12.053	270939	0.004	0.004
9) 2,4,5 -T	12.338	230768	0.004	0.004
27) 2,4 DB	12.628	105185	0.018	0.018
28) Dinoseb	13.613	118568	0.004	0.004

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\ a2hp1.i\01017-1.b\004F0401.D  
Lab Smp Id: c528  
Inj Date : 17-OCT-2000 15:46  
Operator : 001754  
Smp Info : c528,,1,2  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 14:46 Cal File: 014f1401.d  
Als bottle: 4 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: QCANOH05  
Compound Sublist: 1-corp.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	OM-COL ( ng)
1 Dalapon	1.906	1.907	-0.001	334004	0.02000	0.02024
2 DCAA	8.580	8.576	0.004	555422	0.04000	0.04349
3 Dicamba	8.907	8.902	0.005	1065027	0.02000	0.02113
4 MCPP	9.370	9.364	0.006	51241	4.00000	4.104
5 MCPA	9.703	9.698	0.005	86509	4.00000	4.437
6 Dichloroprop	10.548	10.543	0.005	623869	0.04000	0.04216
7 2,4 D	10.965	10.961	0.004	499378	0.04000	0.03917
8 2,4,5 TP (Silvex)	12.055	12.051	0.004	632773	0.01000	0.009877
9 2,4,5 -T	12.337	12.333	0.004	500652	0.01000	0.009368
27 2,4 DB	12.826	12.820	0.006	225536	0.04000	0.03893
28 Dinoseb	13.613	13.611	0.002	268369	0.00600	0.007832

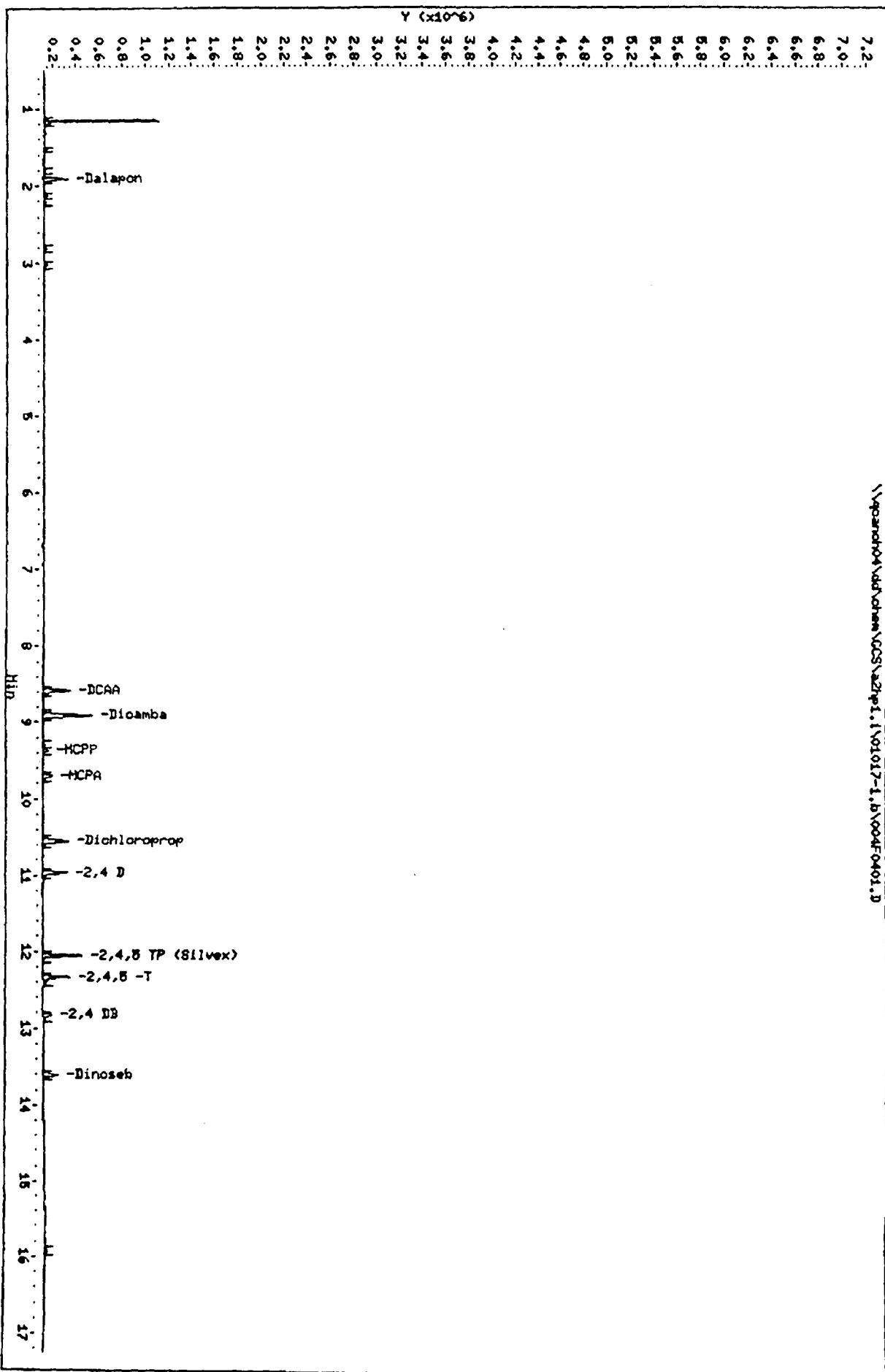
Data File: \\pcando4\dat\chrom\GCS\z2pp1.i\01017-1.b\004F0401.D  
Date : 17-OCT-2000 15:46  
Client ID:  
Sample Info: c52B,,1,2

Column phase: pestolp1

Instruments: z2pp1.i

Operator: 001764  
Column diameter: 0.53

\\pcando4\dat\chrom\GCS\z2pp1.i\01017-1.b\004F0401.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 15:46  
 Data File: //qcanch04/dd/chem/GCS\z2hp1.i\01017-1.b\004P0401.D  
 Lab Sample ID: c528  
 Misc. Info:  
 Instrument: z2hp1.i  
 Method: \\QCANCH04\DD\chem\GCS\z2hp1.i\01017-1.b\HERB.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
	----	-----	-----	-----
1) Dalapon	1.907	334004	0.020	0.020
2) DCAA	8.580	555422	0.043	0.043
3) Dicamba	8.908	1065027	0.021	0.021
4) MCPP	9.370	118730	4.104	4.104
5) MCPA	9.703	249192	4.437	4.437
6) Dichloroprop	10.548	623869	0.042	0.042
7) 2,4 D	10.966	499378	0.039	0.039
8) 2,4,5 TP (Silvex)	12.055	632773	0.010	0.010
9) 2,4,5 -T	12.338	500652	0.009	0.009
27) 2,4 DB	12.827	225536	0.039	0.039
28) Dinoseb	13.613	268169	0.008	0.008

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\005F0501.D

Lab Smp Id: c529

Inj Date : 17-OCT-2000 16:09

Operator : 001754

Inst ID: a2hp1.i

Smp Info : c529,,1,3

Misc Info :

Comment :

Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m

Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD

Cal Date : 27-JUL-2000 15:09 Cal File: 015f1501.d

Als bottle: 5 Calibration Sample, Level: 3

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	OM-COL ( ng)
1 Dalapon	1.907	1.907	0.000	647091	0.04000	0.03960
2 DCAA	8.580	8.576	0.004	1040004	0.08000	0.08163
3 Dicamba	8.907	8.902	0.005	2047729	0.04000	0.04059
4 MCPP	9.368	9.364	0.004	106310	0.00000	0.527
5 MCPA	9.703	9.698	0.005	159418	0.00000	0.192
6 Dichloroprop	10.548	10.543	0.005	1208108	0.08000	0.08217
7 2,4-D	10.965	10.961	0.004	1040023	0.08000	0.08186
8 2,4,5-TP (Silvex)	12.055	12.051	0.004	1310026	0.02000	0.02044
9 2,4,5-T	12.337	12.333	0.004	969012	0.02000	0.01821
27 2,4-DB	12.824	12.820	0.004	452953	0.08000	0.07940
28 Dinoseb	13.615	13.611	0.004	388275	0.01200	0.01131

Data File: \\pcantron4\datashare\GCS\224p1.i\01017-1.b\00060601.D

Date : 17-OCT-2000 16:09

Client ID:

Sample Info: c529..1.3

Page 2

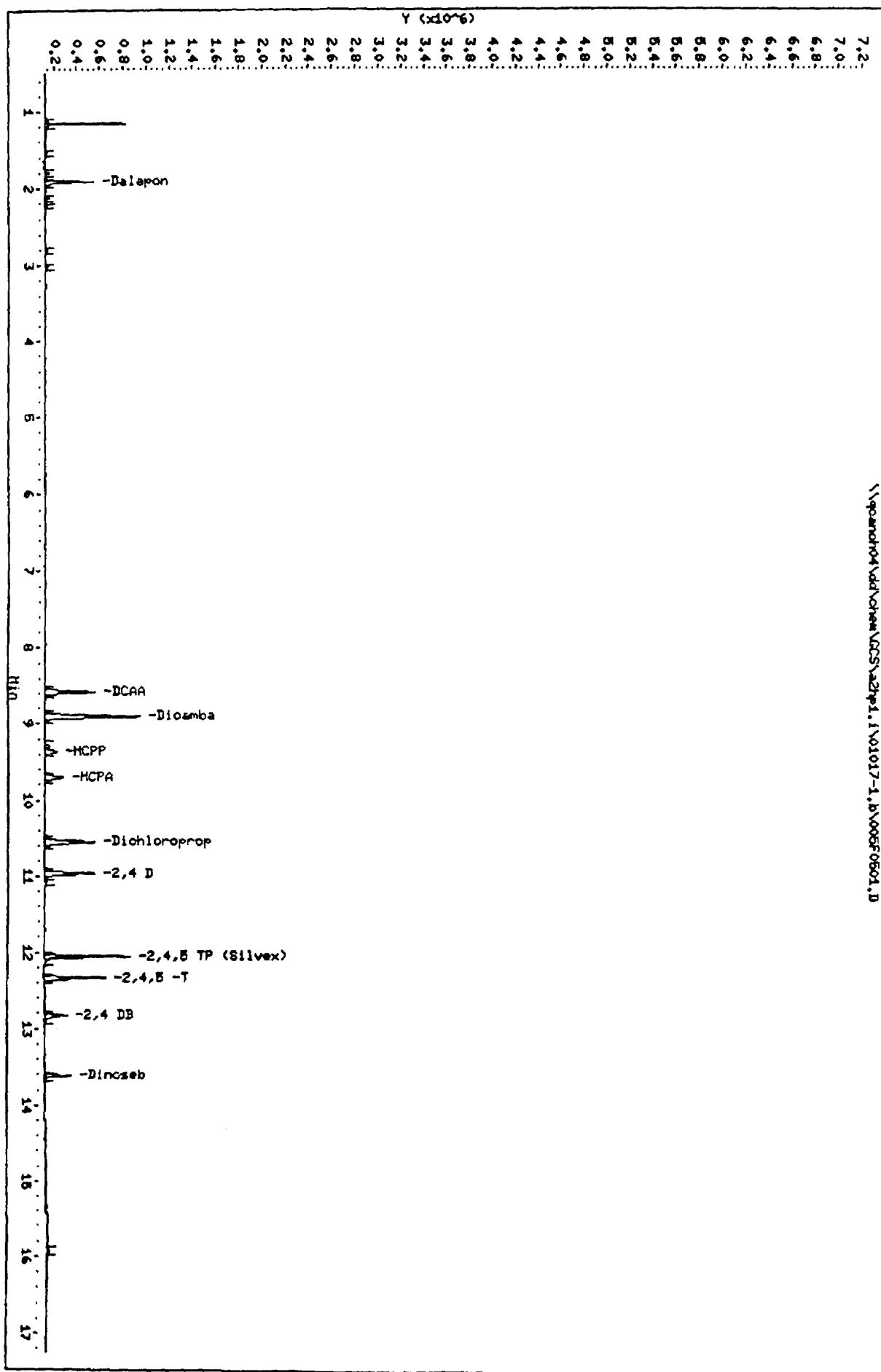
Column phase: pestolpI

\\pcantron4\datashare\GCS\224p1.i\01017-1.b\00060601.D

Instrument: 224p1.i

Operator: 004764

Column diameter: 0.63



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 16:09  
 Data File: //qcanoh04/dd/chem/GCS\z2hp1.i\01017-1.b\005Y0501.D  
 Lab Sample ID: c529  
 Misc. Info:  
 Instrument: z2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\z2hp1.i\\01017-1.b\\MERR.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
	----	-----	-----	-----
1) Dalapon	1.908	647091	0.040	0.040
2) DCMA	8.581	1040004	0.082	0.082
3) Dicamba	8.908	2047729	0.041	0.041
4) MCPP	9.368	270442	0.527	0.527
5) MCPA	9.703	482590	0.192	0.192
6) Dichloroprop	10.548	1208108	0.082	0.082
7) 2,4-D	10.966	1040023	0.082	0.082
8) 2,4,5-TP (Silvex)	12.055	1310026	0.020	0.020
9) 2,4,5-T	12.338	969012	0.018	0.018
27) 2,4-DB	12.824	452953	0.079	0.079
28) Dinoseb	13.615	388275	0.011	0.011

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\006F0601.D  
Lab Smp Id: c530  
Inj Date : 17-OCT-2000 16:32  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : c530,,1,4  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 15:32 Cal File: 016f1601.d  
Als bottle: 6 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

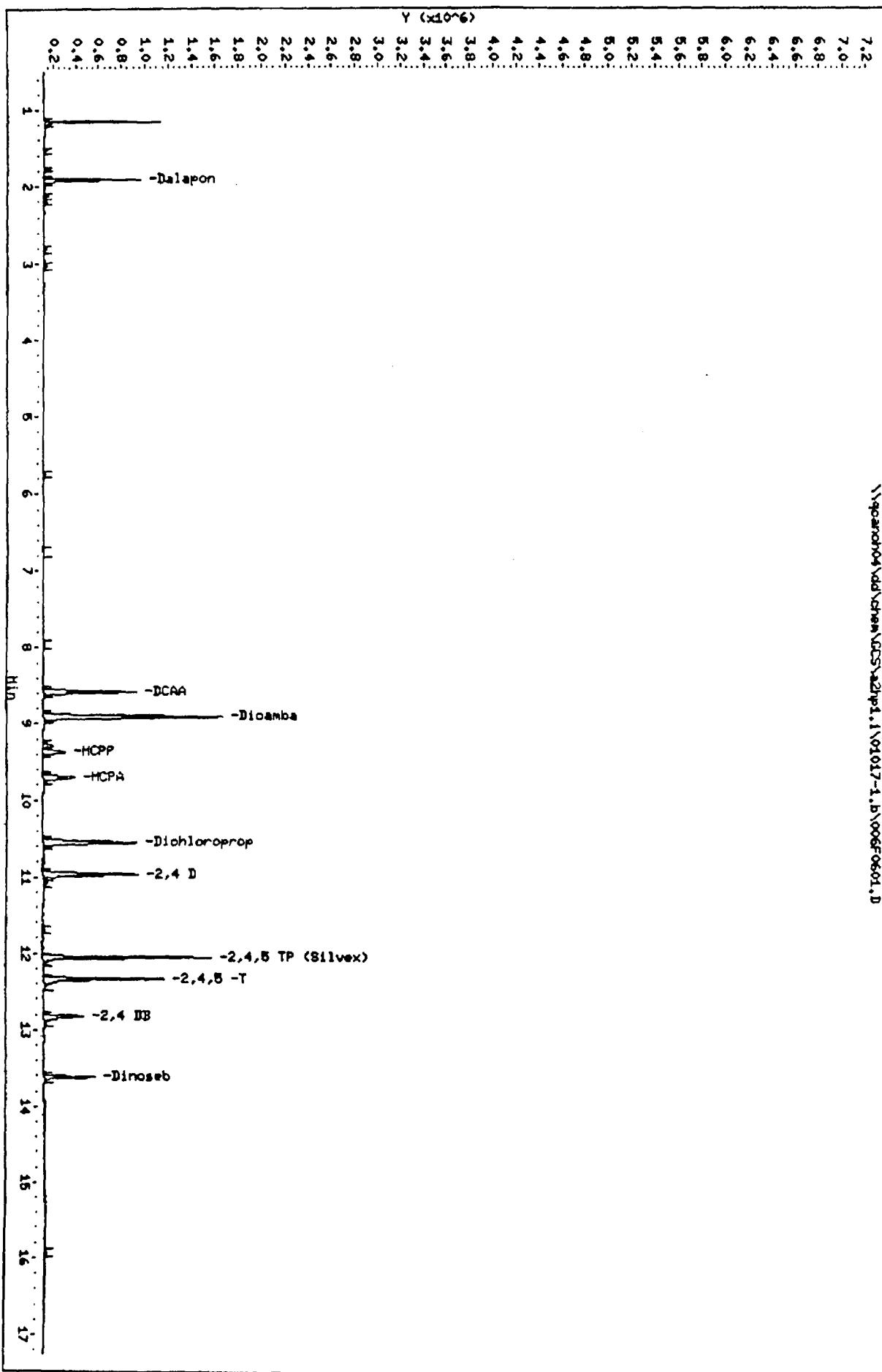
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	1.909	1.907	0.002	1247617	0.08000	0.07692
2 2 DCRA	8.580	8.576	0.004	1899670	0.16000	0.1503
3 Dicamba	8.907	8.902	0.005	3870792	0.08000	0.07710
4 MCPP	9.369	9.364	0.005	198668	16.0000	16.09
5 MCPA	9.703	9.698	0.005	285007	16.0000	14.78
6 Dichloroprop	10.548	10.543	0.005	2223046	0.16000	0.1525
7 2,4 D	10.966	10.961	0.005	1925169	0.16000	0.1538
8 2,4,5 TP (Silvex)	12.055	12.051	0.004	2543116	0.04000	0.04008
9 2,4,5 -T	12.337	12.333	0.004	2028330	0.04000	0.03892
27 2,4 DB	12.824	12.820	0.004	837151	0.16000	0.1500
28 Dinosab	13.614	13.611	0.003	681501	0.02400	0.02006

Client ID:  
Sample Info: C530,1,4

Column Phases: pestolpi

Instrument: 21p1.i  
Operator: 001754  
Column diameter: 0.63

\\pcmon04\dd\chem\GC\21p1.i\01017-1.b\006f0601.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001734 Date Acquired: 17-OCT-2000 16:32  
 Data File: //qcanch04/dd/chem/GCS/a2hpl.i\01017-1.b\00670601.D  
 Lab Sample ID: c530  
 Misc. Info:  
 Instrument: a2hpl.i  
 Method: \\QCANCH04\DD\chem\GCS\ a2hpl.i\01017-1.b\HERB.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.909	1247617	0.077	0.077
2) DCAA	8.581	1899670	0.150	0.150
3) Dicamba	8.907	3670792	0.077	0.077
4) MCPP	9.370	533925	16.094	16.090
5) MCPA	9.703	866348	14.778	14.780
6) Dichloroprop	10.548	2223046	0.153	0.153
7) 2,4 D	10.967	1925169	0.154	0.154
8) 2,4,5 TP (Silvex)	12.056	2543116	0.040	0.040
9) 2,4,5 -T	12.337	2028330	0.039	0.039
27) 2,4 DB	12.824	837151	0.150	0.150
28) Dinosab	13.615	681501	0.020	0.020

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\007F0701.D  
Lab Smp Id: c531  
Inj Date : 17-OCT-2000 16:55  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : c531,,1,5  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 15:55 Cal File: 017f1701.d  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	1.908	1.907	0.001	2491026	0.16000	0.1545
2 DCAA	8.582	8.576	0.006	3658253	0.32000	0.2910
3 Dicamba	8.907	8.902	0.005	7632795	0.16000	0.1525
4 MCPP	9.372	9.364	0.008	398564	32.0000	32.47
5 MCPA	9.706	9.698	0.008	560490	32.0000	29.16
6 Dichloroprop	10.550	10.543	0.007	4401567	0.32000	0.3030
7 2,4-D	10.967	10.961	0.006	4031476	0.32000	0.3234
8 2,4,5-TP (Silvex)	12.056	12.051	0.005	5319956	0.08000	0.08412
9 2,4,5-T	12.337	12.333	0.004	4565103	0.08000	0.08788
27 2,4-DB	12.823	12.820	0.003	1798101	0.32000	0.3245
28 Dinoseb	13.615	13.612	0.004	1442679	0.04800	0.04218

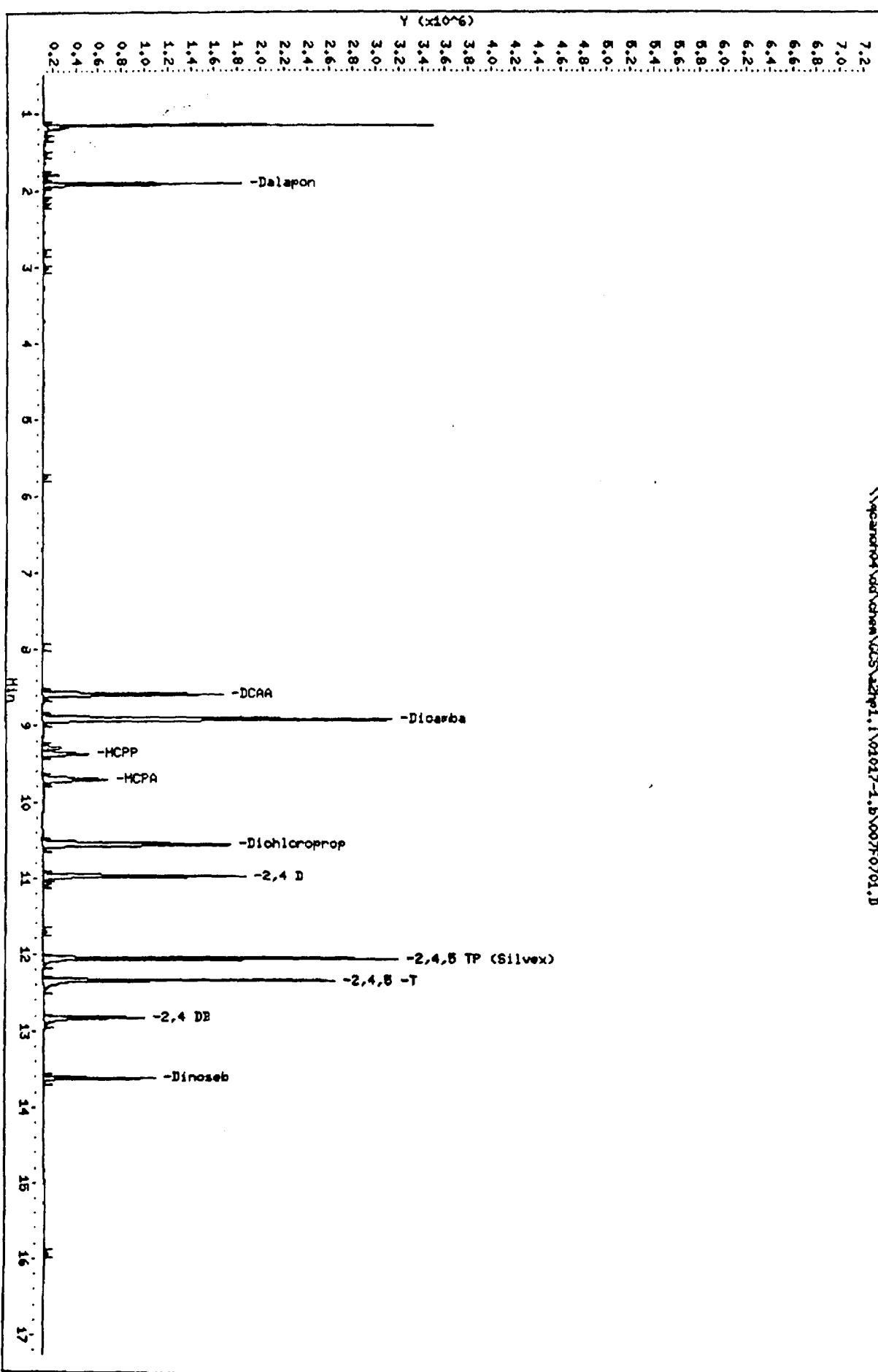
Client ID:  
Sample Info: c531.,1,5

Column Phase: pesticpl

Instrument: 27p1.i

Operator: 001764  
Column diameter: 0.03

\\pcanon04\dat\chem\CCS\27p1.i\01017-1.b\007F0701.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 16:53  
Data File: //qcanoh04/dd/chem/GCS/a2hpl.i\01017-1.b\007F0701.D  
Lab Sample ID: c531  
Misc. Info:  
Instrument: a2hpl.i  
Method: \\QCANOH04\DD\chem\GCS\a2hpl.i\01017-1.b\HERB.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.903	2491026	0.155	0.155
2) DCAA	8.582	3658253	0.291	0.291
3) Dicamba	8.908	7632795	0.153	0.153
4) MCPP	9.372	1092874	32.466	32.470
5) MCPA	9.706	1687774	29.161	29.160
6) Dichloroprop	10.550	4401567	0.303	0.303
7) 2,4-D	10.967	4031476	0.323	0.323
8) 2,4,5 TP (Silvex)	12.056	5319956	0.084	0.084
9) 2,4,5 -T	12.338	4565103	0.088	0.088
27) 2,4 DB	12.824	1798101	0.324	0.325
28) Dinosab	13.615	1442679	0.042	0.042

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\008F0801.D  
Lab Smp Id: c532  
Inj Date : 17-OCT-2000 17:19  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : c532,,1,6  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 8 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	1.909	1.907	0.002	5032567	0.32000	0.3139
6 2 DCAA	8.583	8.576	0.007	7010158	0.64000	0.5602
3 Dicamba	8.909	8.902	0.007	14718853	0.32000	0.2951
4 MCPP	9.375	9.364	0.011	779261	64.0000	63.75
5 MCPA	9.710	9.698	0.012	1079095	64.0000	56.33
6 Dichloroprop	10.550	10.543	0.007	8402349	0.64000	0.5806
7 2,4 D	10.967	10.961	0.006	7797149	0.64000	0.6295
8 2,4,5 TP (Silvex)	12.055	12.051	0.004	10418986	0.16000	0.1653
9 2,4,5 -T	12.338	12.333	0.005	9108021	0.16000	0.1766
27 2,4 DB	12.823	12.820	0.003	3531850	0.64000	0.6435
28 Dinosab	13.614	13.611	0.003	2825499	0.09600	0.08290

Data File: \\pcanon04\dd\chem\GC5\z2hp1.1\01017-1.b\008F0801.D

Date : 17-OCT-2000 17:19

Client ID:

Sample Info: 0532.,1,6

Page 2

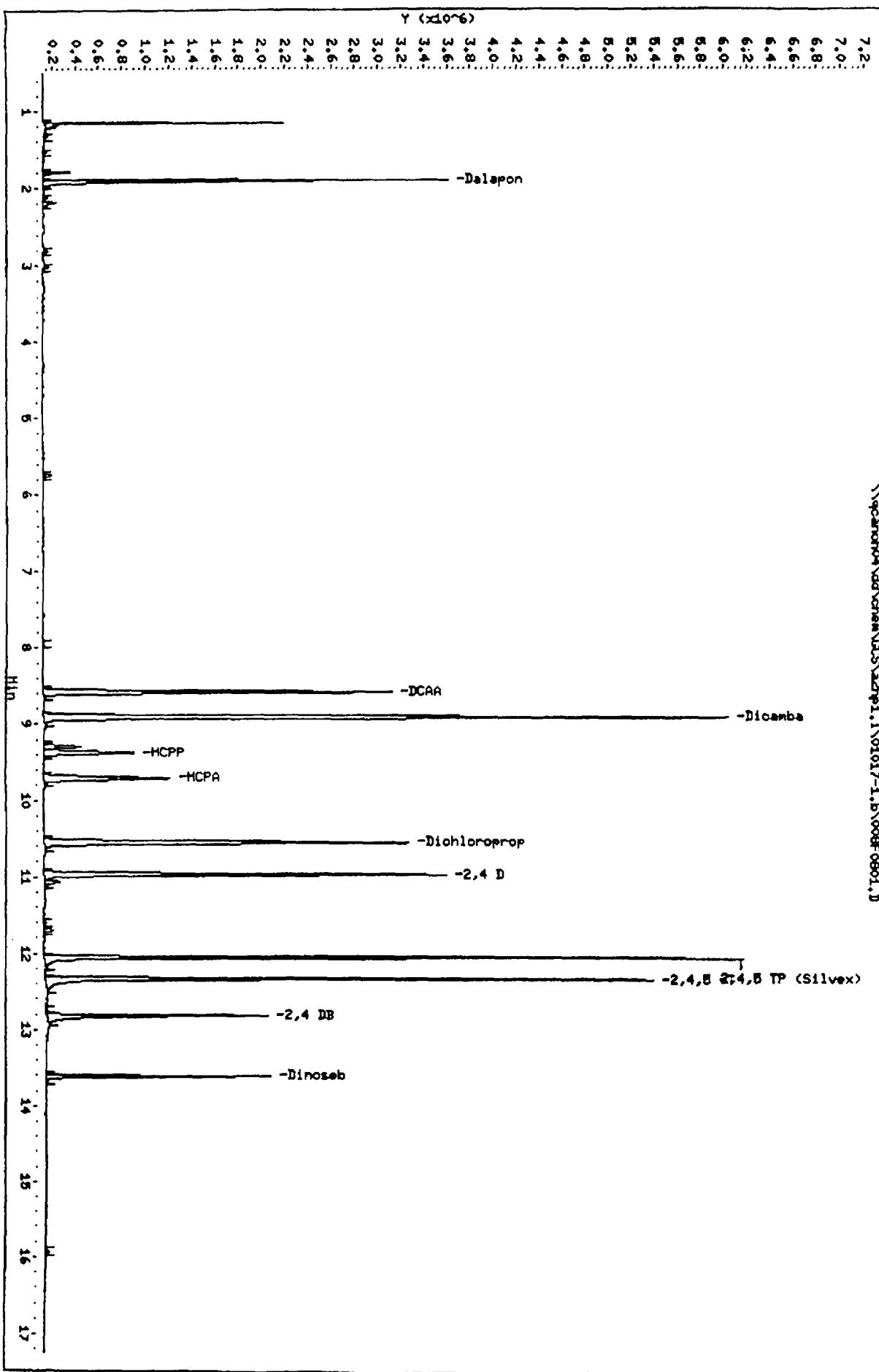
Instrument: z2hp1.1

Operator: 001764

Column diameter: 0.53

\\pcanon04\dd\chem\GC5\z2hp1.1\01017-1.b\008F0801.D

Column phase: pestolpi



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 17:19  
 Data File: //QCANOH04/dd/chem/GCS/a2hp1.i\01017-1.b\00870801.D  
 Lab Sample ID: c532  
 Misc. Info:  
 Instrument: a2hp1.i  
 Method: \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-1.b\HERB.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.910	5032567	0.314	0.314
2) DCAA	8.583	7010158	0.560	0.560
3) Dicamba	8.910	14718853	0.295	0.295
4) MCPP	9.376	2129173	63.755	63.750
5) MCPA	9.711	3189247	56.328	56.330
6) Dichloroprop	10.551	8402349	0.581	0.581
7) 2,4 D	10.967	7797149	0.630	0.629
8) 2,4,5 TP (Silvex)	12.056	10418986	0.165	0.165
9) 2,4,5 -T	12.338	9108021	0.177	0.177
27) 2,4 DB	12.823	3531850	0.644	0.643
28) Dinoseb	13.615	2825499	0.083	0.083

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\A2HPL.I\01017-2.B\003F0301.D  
Lab Smp Id: c527  
Inj Date : 17-OCT-2000 15:23  
Operator : 001754 Inst ID: A2HPL.I  
Smp Info : c527,,1,1.  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\A2HPL.I\01017-2.B\HERBR.M  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 14:23 Cal File: 013f1301.d  
Als bottle: 3 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

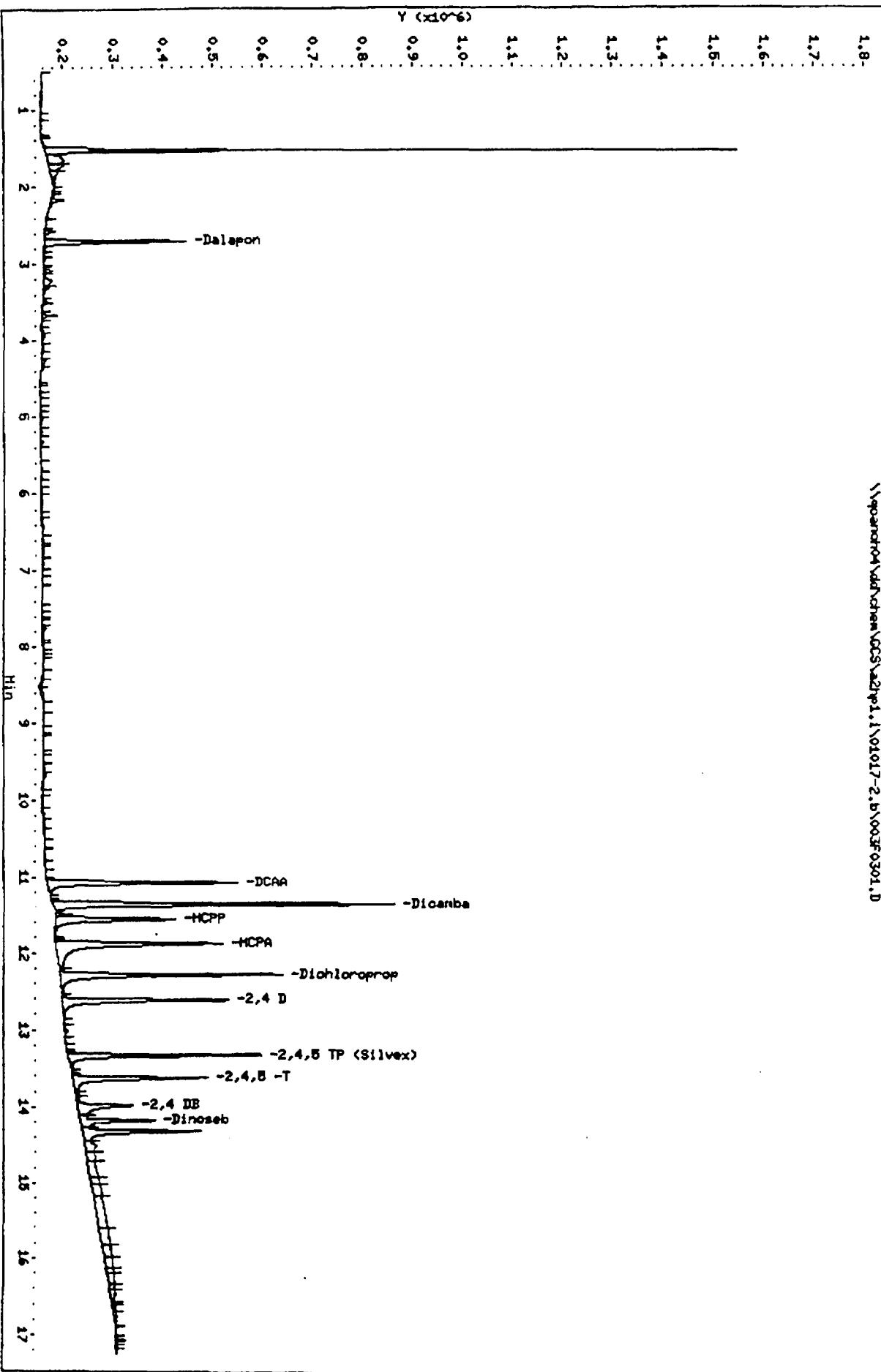
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.710	2.713	-0.003	534643	0.01000	0.0095436
2 DCMA	11.077	11.078	-0.001	1116722	0.02000	0.0200062
3 Dicamba	11.364	11.364	0.000	1776043	0.01000	0.0095836
4 MCPP	11.561	11.560	0.001	239418	2.00000	2.8470
5 MCPA	11.879	11.879	0.000	334756	2.00000	2.9223
6 Dichloroprop	12.287	12.287	0.000	1232379	0.02000	0.019937
7 2,4 D	12.618	12.617	0.001	916875	0.02000	0.016885
8 2,4,5 TP (Silvex)	13.337	13.338	-0.001	917434	0.00500	0.0037692
9 2,4,5 -T	13.633	13.631	0.002	765596	0.00500	0.0036414
10 2,4 DB	13.989	13.983	0.006	454280	0.02000	0.019148
11 Dinoseb	14.187	14.188	-0.001	410917	0.00300	0.0038043

Client ID:  
Sample Info: 0527,,1,1

Column phase: pestol1

Instrument: 2hp1.1  
Operator: 001764  
Column diameter: 0.53

\\\pcand01\dd\chem\GCS\2hp1.1\01017-2.b\003F0301.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 15:23  
Data File: //qcanoh04/dd/chem/GCS/a2hpl.i\01017-2.b\003F0301.D  
Lab Sample ID: c527  
Misc. Info:  
Instrument: a2hpl.i  
Method: \\GCANOH04\DD\chem\GCS\ a2hpl.i\01017-2.b\HRRR.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.710	654645	0.010	0.010
2) DCAA	11.078	1116722	0.020	0.020
3) Dicamba	11.364	1776043	0.010	0.010
4) MCPP	11.562	748551	2.847	2.847
5) MCPA	11.879	1329663	2.923	2.922
6) Dichloroprop	12.288	1232379	0.020	0.020
7) 2,4-D	12.618	916875	0.017	0.017
8) 2,4,5 TP (Silvex)	13.338	917434	0.004	0.004
9) 2,4,5 -T	13.633	765596	0.004	0.004
10) 2,4 DB	13.989	454280	0.019	0.019
11) Dinoseb	14.188	410917	0.004	0.004

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\aqhpl.i\01017-2.b\004F0401.D  
Lab Smp Id: c528  
Inj Date : 17-OCT-2000 15:46  
Operator : 001754 Inst ID: a2hpl.i  
Smp Info : c528,,1,2  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\aqhpl.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 14:46 Cal File: 014f1401.d  
Als bottle: 4 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.711	2.713	-0.002	1353675	0.02000	0.019977
2 DCAA	11.080	11.078	0.002	2285467	0.04000	0.041632
3 Dicamba	11.366	11.364	0.002	3747031	0.02000	0.020396
4 MCPP	11.562	11.560	0.002	394189	4.00000	4.7578
5 MCPA	11.882	11.879	0.003	532968	4.00000	4.7272
6 Dichloroprop	12.289	12.287	0.002	2387320	0.04000	0.039366
7 2,4-D	12.620	12.617	0.003	1913645	0.04000	0.036229
8 2,4,5 TP (Silvex)	13.339	13.338	0.001	2118499	0.01000	0.0088535
9 2,4,5 -T	13.433	13.431	0.002	1651934	0.01000	0.0080379
10 2,4 DB	13.989	13.983	0.006	773746	0.04000	0.033300
11 Dinosab	14.188	14.188	0.000	631272	0.00600	0.0057131

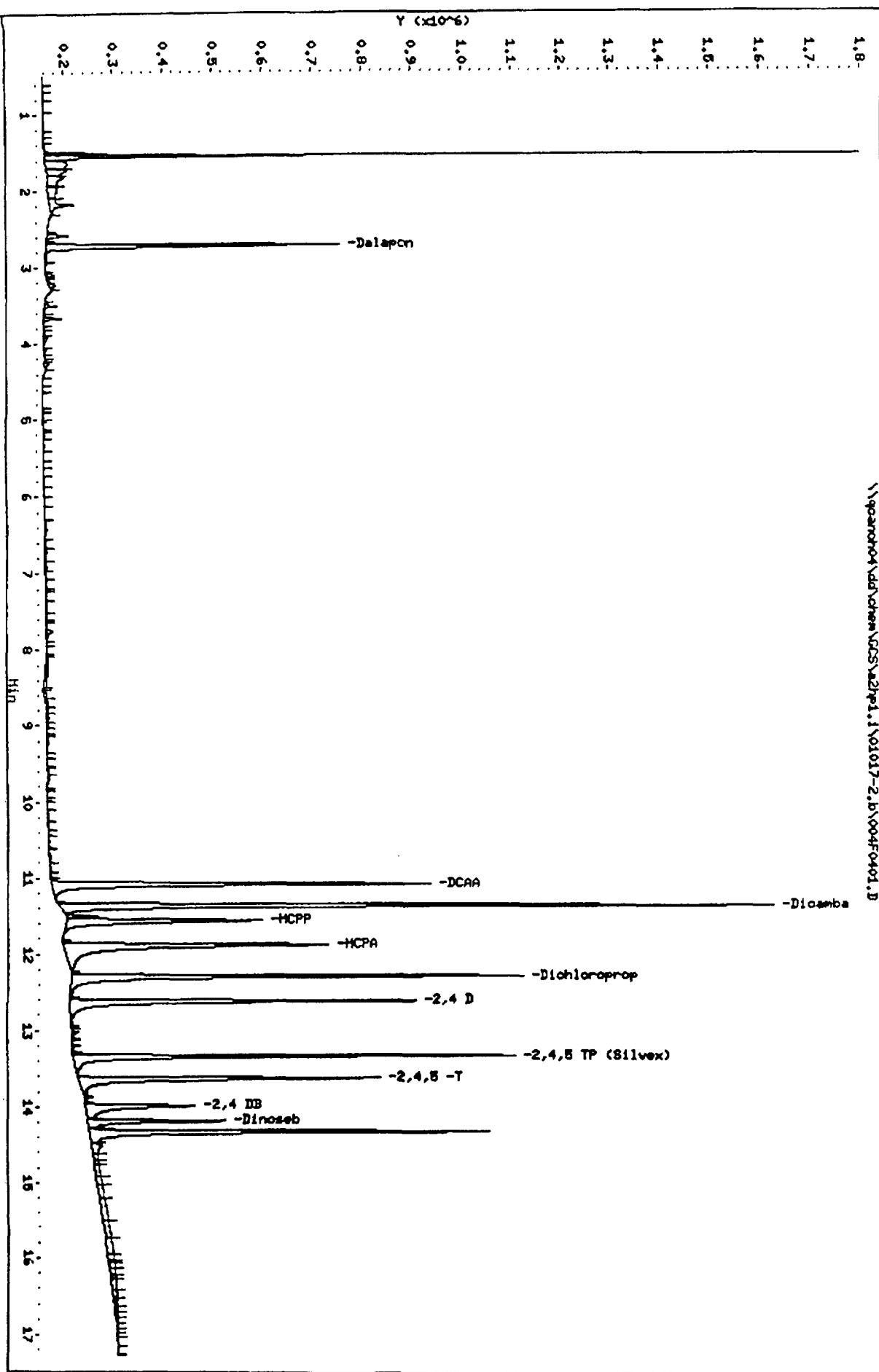
Data File: \\qcandor4\\dd\\chem\\GC\\e2hp1.i\\01017-2.b\\004F0401.D  
Date : 17-OCT-2000 15:46  
Client ID:  
Sample Info: c528.r1.r2

Instrument: e2hp1.i

Operator: 001754  
Column diameter: 0.03

\\qcandor4\\dd\\chem\\GC\\e2hp1.i\\01017-2.b\\004F0401.D

Column phase: pestolp1



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 15:46  
Data File: //QCANOH04/dd/chem/GCS\z2hp1.1\01017-2.b\004F0401.D  
Lab Sample ID: c528  
Misc. Info:  
Instrument: z2hp1.1  
Method: \\QCANOH04\DD\chem\GCS\z2hp1.1\01017-2.b\MERBR.m  
Dilution Factor: 1

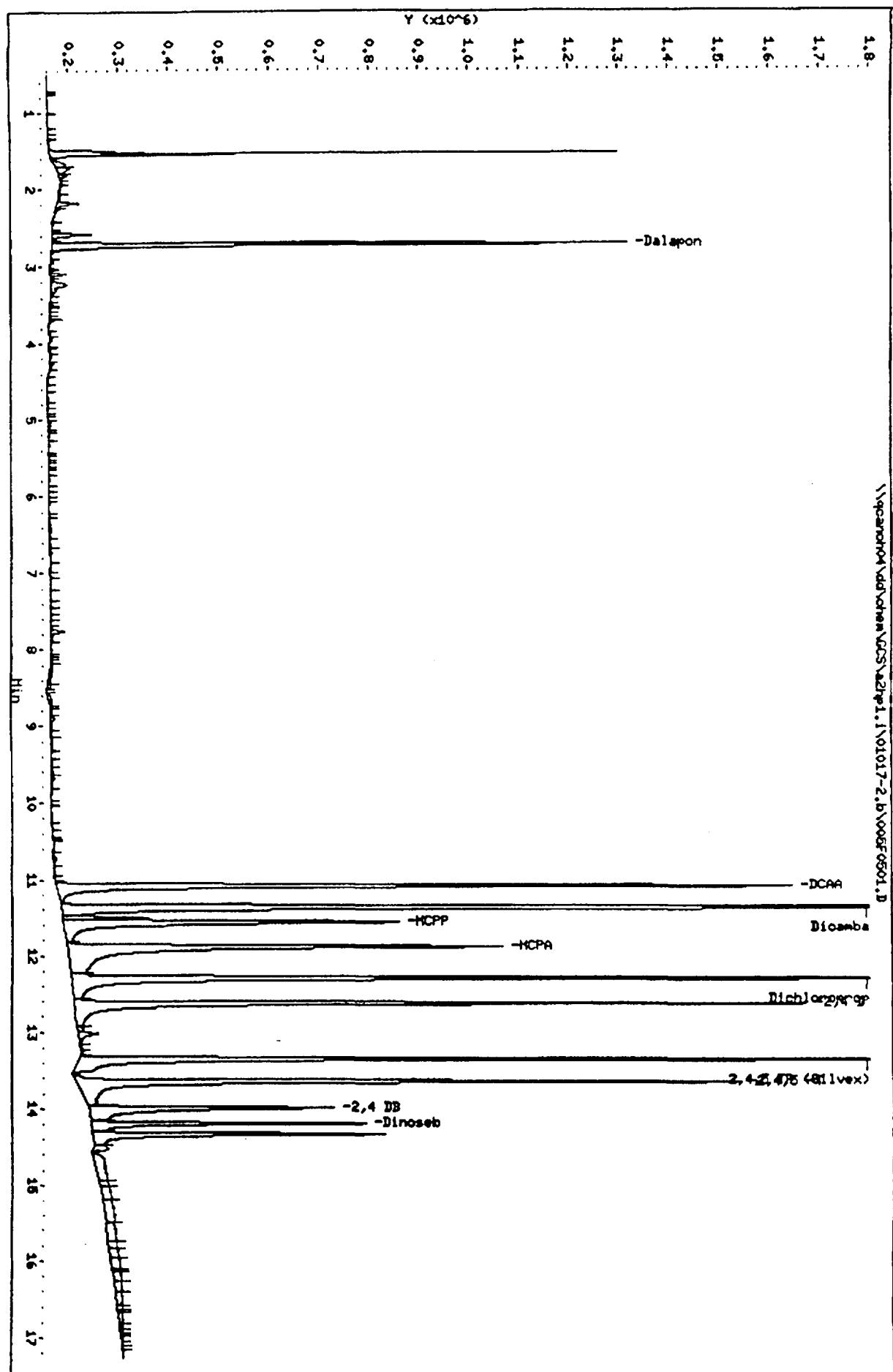
Compound	RT	Area	Amount	Conc
1) Dalapon	2.712	1353675	0.020	0.020
2) DCAA	11.080	2285467	0.042	0.042
3) Dicamba	11.367	3747031	0.020	0.020
4) MCPP	11.563	1258487	4.758	4.758
5) MCPA	11.883	2119928	4.727	4.727
6) Dichloroprop	12.289	2387320	0.039	0.039
7) 2,4 D	12.620	1913645	0.036	0.036
8) 2,4,5 TP (Silvex)	13.339	2118499	0.009	0.009
9) 2,4,5 -T	13.633	1651934	0.008	0.008
10) 2,4 DB	13.989	773746	0.033	0.033
11) Dinosab	14.188	631272	0.006	0.006

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\005F0501.D  
Lab Smp Id: c529  
Inj Date : 17-OCT-2000 16:09  
Operator : 001754  
Smp Info : c529,,1,3  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 15:09 Cal File: 015f1501.d  
Als bottle: 5 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Compound Sublist: 1-corp.sub  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.712	2.713	-0.001	2621992	0.04000	0.039094
2 DCBA	11.080	11.078	0.002	4416800	0.08000	0.080903
3 Dicamba	11.367	11.364	0.003	7564736	0.04000	0.041023
4 MCPP	11.563	11.560	0.003	670898	8.00000	8.0588
5 MCPA	11.882	11.879	0.003	870885	8.00000	7.7567
6 Dichloroprop	12.290	12.287	0.003	5162713	0.08000	0.084504
7 2,4-D	12.620	12.617	0.003	4173576	0.08000	0.079763
8 2,4,5-T (Silvex)	13.340	13.338	0.002	4810032	0.02000	0.020021
9 2,4,5-T	13.634	13.631	0.003	3914077	0.02000	0.019210
10 2,4-DB	13.986	13.983	0.003	1678997	0.08000	0.072965
11 Dinosab	14.189	14.188	0.001	1296888	0.01200	0.011736



## COMPOUNDS and RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 16:09  
 Data File: //qcanch04/dd/chem/GCS\s2hp1.i\01017-2.b\005F0501.D  
 Lab Sample ID: c529  
 Misc. Info:  
 Instrument: s2hp1.i  
 Method: \\QCANCH04\\DD\\chem\\GCS\\s2hp1.i\\01017-2.b\\HRRBR.ms  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.713	2621992	0.039	0.039
2) DCAA	11.081	4416800	0.081	0.081
3) Dicamba	11.368	7564736	0.041	0.041
4) MCPP	11.563	2471621	8.059	8.059
5) MCPA	11.883	3832815	7.757	7.757
6) Dichloroprop	12.290	5162713	0.085	0.085
7) 2,4 D	12.620	4173576	0.080	0.080
8) 2,4,5 TP (Silvex)	13.340	4810032	0.020	0.020
9) 2,4,5 -T	13.634	3914077	0.019	0.019
10) 2,4 DB	13.987	1678997	0.073	0.073
11) Dinoseb	14.189	1296888	0.012	0.012

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hpl.i\01017-2.b\006F0601.D

Lab Smp Id: c530

Inj Date : 17-OCT-2000 16:32

Operator : 001754

Inst ID: a2hpl.i

Smp Info : c530,,1,4

Misc Info :

Comment :

Method : \\QCANOHO4\\DD\\chem\\GCS\\a2hpl.i\\01017-2.b\\HERBR.m

Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD

Cal Date : 27-JUL-2000 15:32 Cal File: 016f1601.d

Als bottle: 6

Calibration Sample, Level: 4

Dil Factor: 1.00000

Integrator: Falcon

Compound Sublist: 1-corp.sub

Target Version: 4.04

Processing Host: QCANOHO5

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.714	2.713	0.001	5214803	0.08000	0.078483
2 DCAA	11.082	11.078	0.004	8208128	0.16000	0.15235
3 Dicamba	11.369	11.364	0.005	14455758	0.08000	0.078932
4 MCPP	11.564	11.560	0.004	1101359	16.0000	13.318
5 MCPA	11.883	11.879	0.004	1418712	16.0000	12.770
6 Dichloroprop	12.290	12.287	0.003	9643299	0.16000	0.15924
7 2,4-D	12.620	12.617	0.003	7956648	0.16000	0.15574
8 2,4,5-TP (Silvex)	13.340	13.338	0.002	9567923	0.04000	0.040514
9 2,4,5-T	13.634	13.631	0.003	7319885	0.04000	0.037464
10 2,4-DB	13.987	13.983	0.004	3133985	0.16000	0.14193
11 Diboseb	14.190	14.188	0.002	2334326	0.02400	0.021492

Data File: \\pcanthon4\dd\chem\GC3\z2hp1.1\01017-2.b\006F0601.D

Date : 17-OCT-2000 16:13

Client ID:

Sample Info: 6530,,1,4

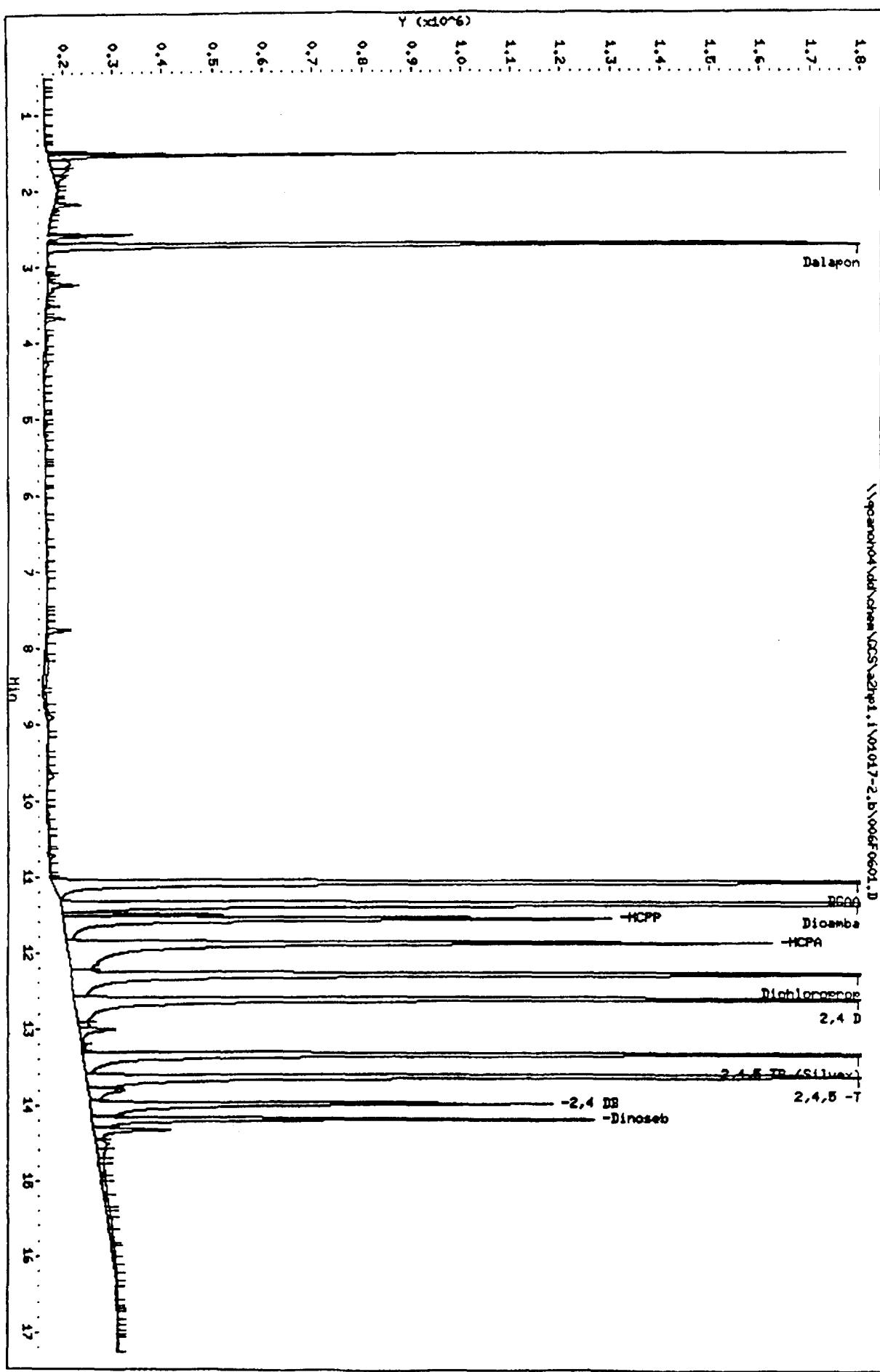
Column phase: pestolip

Instrument: z2hp1.i

Operator: 001764

Column diameter: 0.53

Page 2



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 16:32  
Data File: //QCANCH04/dd/chem/GCS/a2hp1.i\01017-2.b\006F0601.D  
Lab Sample ID: c530  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANCH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\KERRR.M  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.714	5214803	0.078	0.078
2) DCAA	11.082	8208128	0.152	0.152
3) Dicamba	11.369	14455758	0.079	0.079
4) MCPP	11.564	3957928	13.318	13.318
5) MCPA	11.883	5868972	12.770	12.770
6) Dichloroprop	12.291	9643299	0.159	0.159
7) 2,4 D	12.621	7936648	0.156	0.156
8) 2,4,5 TP (Silvax)	13.341	9567923	0.041	0.041
9) 2,4,5 -T	13.635	7319685	0.037	0.037
10) 2,4 DB	13.987	3133983	0.142	0.142
11) Dinoceb	14.191	2334326	0.021	0.021

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\007F0701.D  
Lab Smp Id: c531  
Inj Date : 17-OCT-2000 16:55  
Operator : 001754  
Smp Info : c531,,1,5  
Misc Info :  
Comment :  
Method : \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 27-JUL-2000 15:55 Cal File: 017f1701.d  
Als bottle: 7 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.715	2.713	0.002	10379853	0.16000	0.15740
2 DCAA	11.082	11.078	0.004	16062448	0.32000	0.30091
3 Dicamba	11.370	11.364	0.006	28763841	0.16000	0.15780
4 MCPP	11.566	11.560	0.006	2015639	32.0000	24.454
5 MCPA	11.884	11.879	0.005	2643366	32.0000	23.829
6 Dichloroprop	12.292	12.287	0.005	18924479	0.32000	0.31310
7 2,4 D	12.621	12.617	0.004	16765764	0.32000	0.33191
8 2,4,5 TP (Silvex)	13.341	13.338	0.003	20758527	0.08000	0.080558
9 2,4,5 -T	13.634	13.631	0.003	17407086	0.08000	0.090325
10 2,4 DB	13.986	13.983	0.003	6901146	0.32000	0.31913
11 Dinoesab	14.191	14.188	0.003	4889680	0.04800	0.044703

Date : 17-OCT-2000 16:55

Client ID:

Sample Info: C531., 1,5

Instrument: 27p1.1

Operator: 001764  
Column diameter: 0.03

\\pcanon04\\dd\\chem\\NCS\\27p1.1\\01017-2.b\\007F0701.D

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1.2.  
1.1.  
1.0.  
0.9.  
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0.6.  
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0.4.  
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17.

Dalapox

RGA  
DICBOP  
MPPA  
HCPA  
Dichloropropane  
2,4-D

2,4,5-TP (Silent)  
2,4,5-T  
2,4-DB  
Dinoseb

## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 16:55  
Data File: //qcanoh04/dd/chem/GCS/a2hp1.i/01017-2.b/007F0701.D  
Lab Sample ID: c531  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\MERBR.m  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.715	10379853	0.157	0.157
2) DCAA	11.083	16062448	0.301	0.301
3) Dicamba	11.370	28763841	0.158	0.158
4) MCPP	11.566	6885579	24.454	24.454
5) MCPA	11.885	9923461	23.929	23.929
6) Dichloroprop	12.392	18924479	0.313	0.313
7) 2,4-D	12.621	16765764	0.332	0.332
8) 2,4,5-TP (Silvex)	13.341	20758527	0.089	0.089
9) 2,4,5-T	13.635	17407086	0.090	0.090
10) 2,4-DB	13.986	6901146	0.319	0.319
11) Dinoseb	14.191	4889680	0.045	0.045

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\ a2hp1.i\01017-2.b\008F0801.D  
Lab Smp Id: c532  
Inj Date : 17-OCT-2000 17:19  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : c532,,1,6  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 8 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.717	2.713	0.004	20545506	0.32000	0.31370
2 DCAA	11.083	11.078	0.005	30609620	0.64000	0.57843
3 Dicamba	11.370	11.364	0.006	55717921	0.32000	0.30708
4 MCPP	11.567	11.560	0.007	3776269	64.0000	45.964
5 MCPA	11.885	11.879	0.006	5009909	64.0000	45.611
6 Dichloroprop	12.292	12.287	0.005	35241801	0.64000	0.58686
7 2,4-D	12.621	12.617	0.004	32092642	0.64000	0.64590
8 2,4,5 TP (Silvex)	13.341	13.338	0.003	41407652	0.16000	0.17831
9 2,4,5-T	13.633	13.631	0.002	34984723	0.16000	0.18522
10 2,4 DB	13.985	13.983	0.002	14047145	0.64000	0.66813
11 Dinoseb	14.190	14.188	0.002	9832549	0.09600	0.090510

Date : 17-OCT-2000 17:19

Client ID:

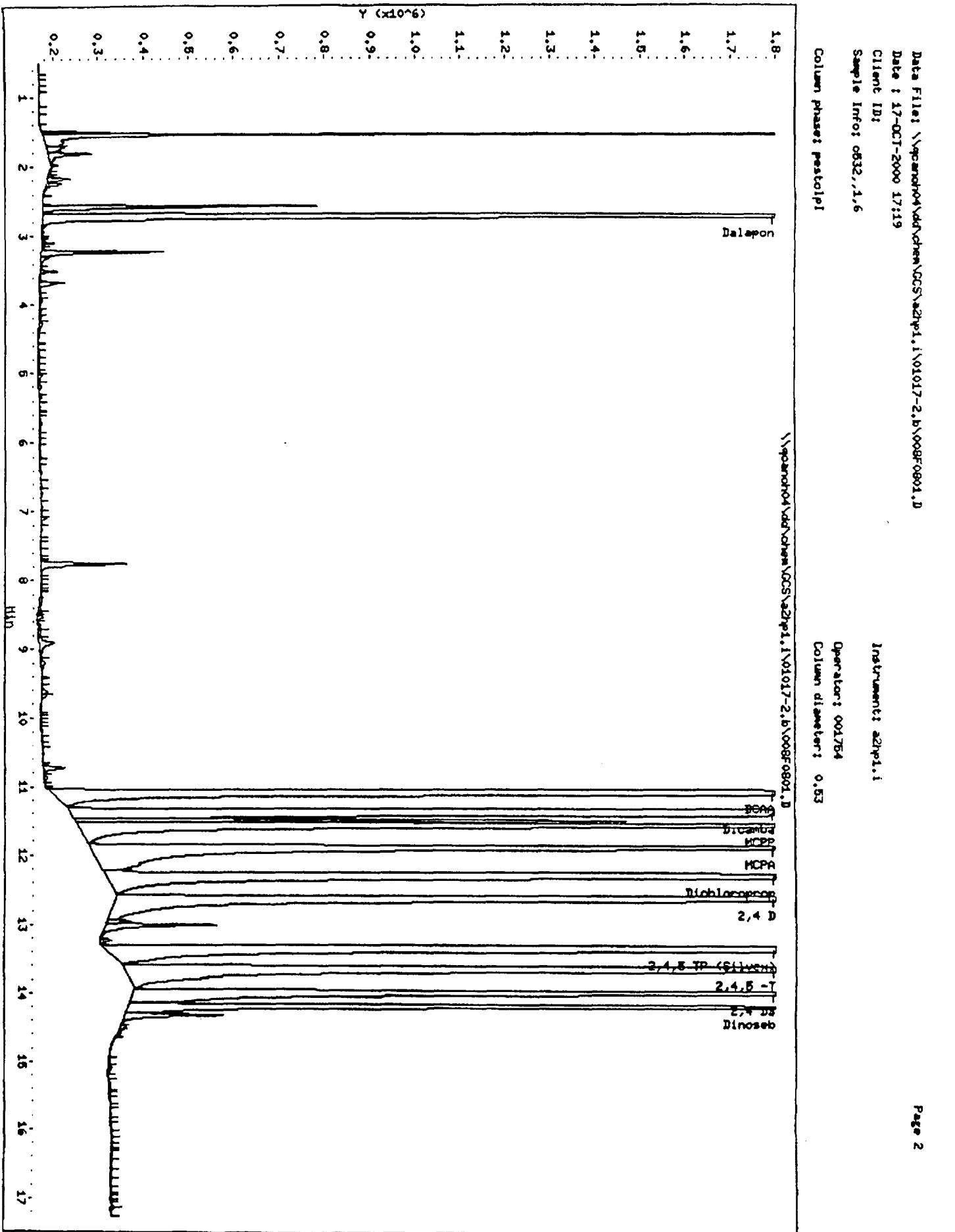
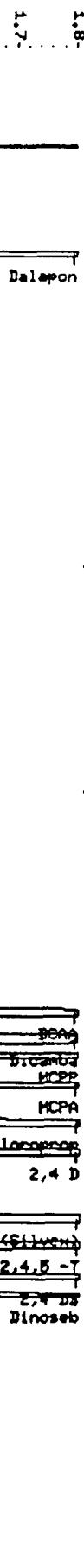
Sample Info: 0632.,1,6

Instrument: z2hp1.i

Operator: 001764

Column diameter: 0.053

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## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 17:19  
Data File: //qcanoh04/dd/chem/GCS/a2hp1.i\01017-2.b\008F0801.D  
Lab Sample ID: c532  
Misc. Info:  
Instrument: a2hp1.i  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.M  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.717	20545506	0.324	0.324
2) DCAA	11.084	30609020	0.578	0.578
3) Dicamba	11.371	55717921	0.307	0.307
4) MCPP	11.567	11995299	45.964	45.964
5) MCPA	11.886	16198810	45.611	45.611
6) Dichloroprop	12.292	35241801	0.587	0.587
7) 2,4-D	12.621	32092642	0.646	0.646
8) 2,4,5 TP (Silvex)	13.341	41407652	0.178	0.178
9) 2,4,5 -T	13.634	34984723	0.185	0.185
10) 2,4 DB	13.986	14047145	0.668	0.668
11) Dinosab	14.191	9832549	0.091	0.091

8D  
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL - NORTH CANTON

Contract:

Lab Code: QESOH

Case No.:

SAS No.:

SDG No.: A0J110192

GC Column: PESTCLPI ID: 0.53 (mm) Init. Calib. Date(s): 07/21/00 10/17/00

Instrument ID: A2HP1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,  
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION S1 : 8.58				S1	RT #	RT #
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED			
01	C530	10/17/00	2354	8.58		
02	SL50-6"	10/18/00	0127	8.58		
03	SL50-4'	10/18/00	0150	8.58		
04	SL51-4'	10/18/00	0213	8.58		
05	SL52-6"	10/18/00	0236	8.58		
06	SL52-4'	10/18/00	0259	8.58		
07	SL53-6"	10/18/00	0323	8.58		
08	SL54-6"	10/18/00	0346	8.58		
09	SL55-6"	10/18/00	0409	8.58		
10	DM2XXBLK	10/18/00	0432	8.58		
11	DM2XXCHK	10/18/00	0455	8.58		
12	DM2XXCHKDUP	10/18/00	0518	8.58		
13	C530	10/18/00	0605	8.58		
14						
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31						
32						

QC LIMITS  
(+/- 0.05 MINUTES)

# Column used to flag retention time values with an asterisk.  
\* Values outside of QC limits.

Date : 18-OCT-2000 06:05

Client ID:

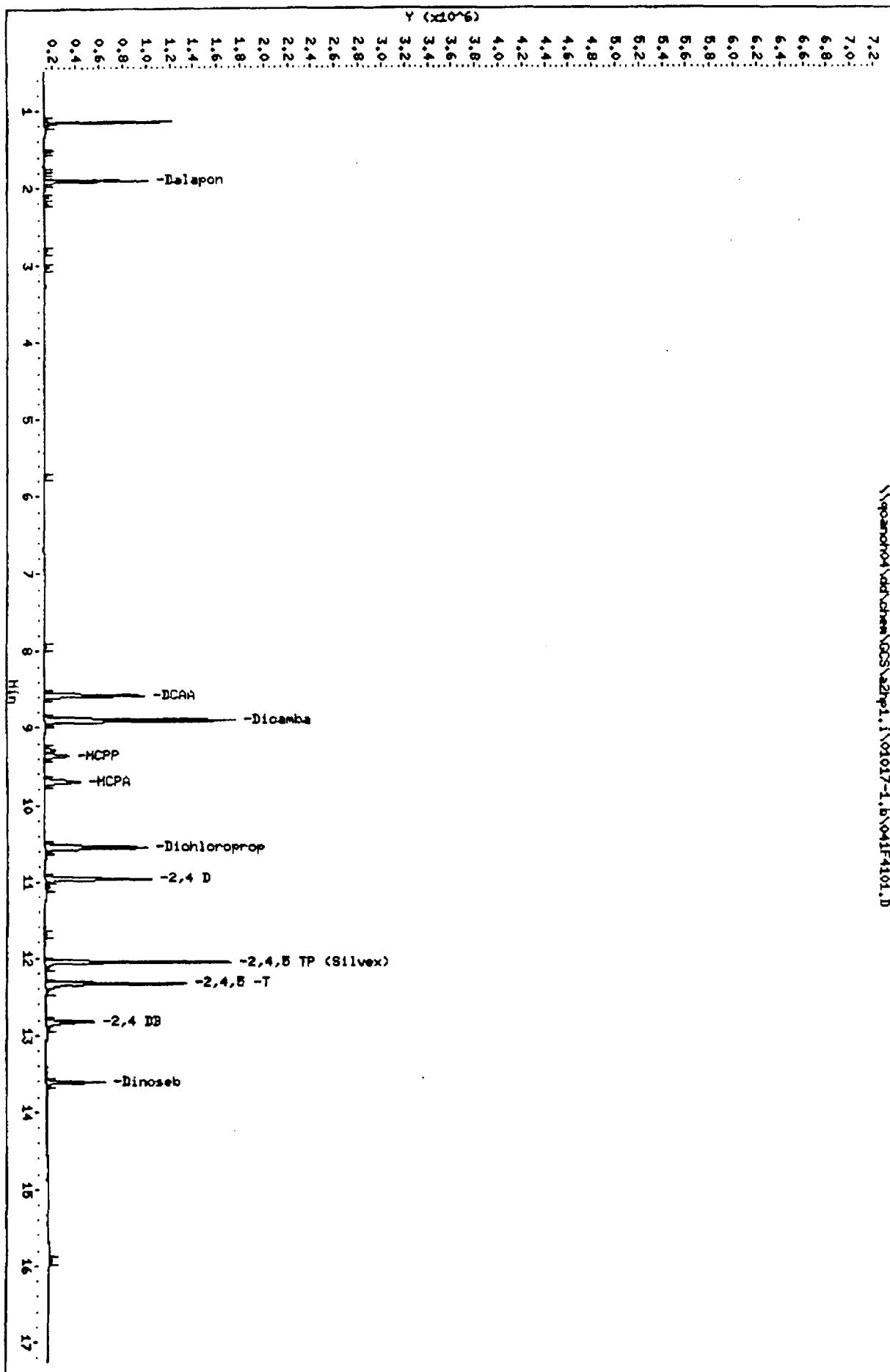
Sample Info: 0630,,2

Instrument: 22hp1.i

Operator: 001784  
Column diameter: 0.53

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Column phase: pestoil1



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 16-OCT-2000 06:05  
 Data File: //qcanoh04/dd/chem/GCS\z2hp1.i\01017-1.b\041P4101.D  
 Lab Sample ID: c530  
 Misc. Info:  
 Instrument: z2hp1.i  
 Method: \\QCANOH04\\DD\\chem\\GCS\\z2hp1.i\\01017-1.b\\HERB.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.907	1321958	0.082	0.082
2) DCAA	8.576	2038662	0.163	0.163
3) Dicamba	8.902	4100945	0.082	0.082
4) MCPP	9.365	574187	17.497	17.500
5) MCPA	9.698	926716	15.939	15.940
6) Dichloroprop	10.543	2397838	0.166	0.166
7) 2,4-D	10.961	2137617	0.173	0.173
8) 2,4,5 TP (Silvex)	12.051	2792282	0.044	0.044
9) 2,4,5 -T	12.334	2317725	0.045	0.045
27) 2,4 DB	12.821	979077	0.178	0.178
28) Dinoseb	13.611	791533	0.023	0.023

Data File: \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\025F2501.D Page 2  
Report Date: 18-Oct-2000 14:31

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp1.i Injection Date: 17-OCT-2000 23:54  
Lab File ID: 025F2501.D Init. Cal. Date(s): 21-JUL-2000 17-OCT-2000  
Analysis Type: Init. Cal. Times: 01:29 17:19  
Lab Sample ID: c530 Quant Type: ESTD  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hp1.i\\01017-2.b\\HERBR.m

COMPOUND	RRF	RF2	MIN	MAX
	RRF	%D	%D	%D
1 Dalapon	65493646	68023225	0.010	3.9  15.0
2 DCAA	52917553	53938775	0.010	1.9  15.0
3 Dicamba	181443956	189720000	0.010	4.6  15.0
4 MCPP	82158	68858	0.010	-16.2  15.0  <-
5 MCPA	109839	90737	0.010	-17.4  15.0  <-
6 Dichloroprop	60051799	62094488	0.010	3.4  15.0
7 2,4 D	49686898	54829338	0.010	10.3  15.0
8 2,4,5 TP (Silvex)	232219298	257575625	0.010	10.9  15.0
9 2,4,5 -T	188876111	220670725	0.010	16.8  15.0  <-
10 2,4 DB	21024544	22043494	0.010	4.8  15.0
11 Dinoseb	108635439	111348958	0.010	2.5  15.0

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\025F2501.D  
Lab Smp Id: c530  
Inj Date : 17-OCT-2000 23:54  
Operator : 001754  
Smp Info : c530,,2  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 25 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: QCANOH05  
Compound Sublist: 1-corp.sub

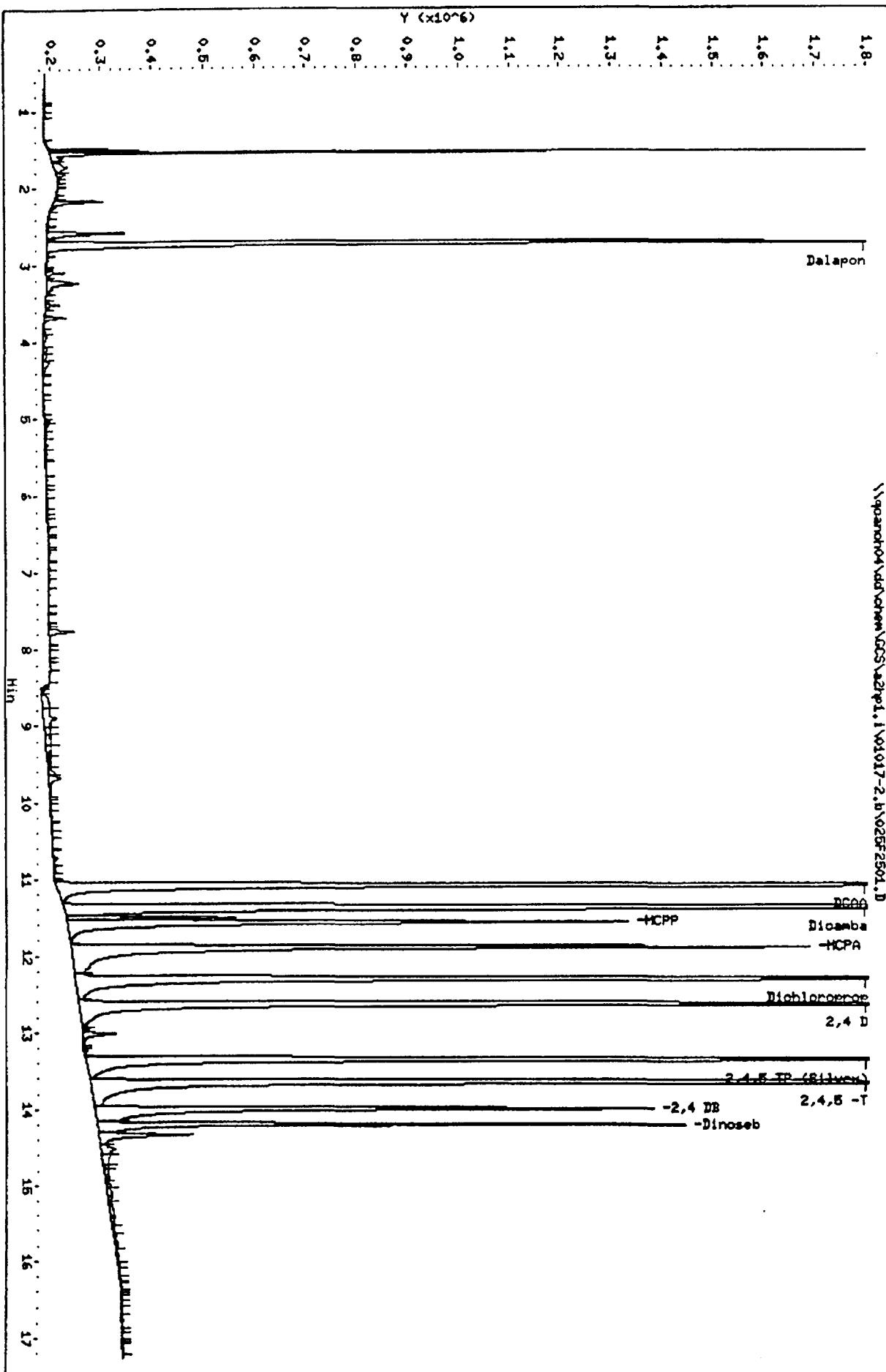
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.716	2.713	0.003	5441858	0.08000	0.083090
2 DCAA	11.082	11.078	0.004	8630204	0.16000	0.16309
3 Dicamba	11.369	11.364	0.005	15177600	0.08000	0.083649
4 MCPP	11.564	11.560	0.004	1101720	16.0000	13.410
5 MCPA	11.883	11.879	0.004	1451785	16.0000	13.217
6 Dichloroprop	12.291	12.287	0.004	9935118	0.16000	0.16544
7 2,4 D	12.621	12.617	0.004	8772694	0.16000	0.17656
8 2,4,5 TP (Silvex)	13.341	13.338	0.003	10303025	0.04000	0.044368
9 2,4,5 -T	13.634	13.631	0.003	8826829	0.04000	0.046733
10 2,4 DB	13.987	13.983	0.004	3526959	0.16000	0.16775
11 Dinoseb	14.191	14.188	0.003	2672375	0.02400	0.024599

Instrument: z27pi.1

Operator: 001754

Column diameter: 0.53

Column phase: pestolpi



## COMPOUNDS AND EXP. RT REPORT

Operator: 001754 Date Acquired: 17-OCT-2000 23:54  
 Data File: //QCNOH04/dd/chem/GCS\2hp1.i\01017-2.b\025F2501.D  
 Lab Sample ID: c530  
 Misc. Info:  
 Instrument: 2hp1.i  
 Method: \\QCNOH04\DD\chem\GCS\2hp1.i\01017-2.b\MERDR.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.716	5441858	0.083	0.083
2) DCAA	11.083	8630204	0.163	0.163
3) Dicamba	11.370	15177600	0.084	0.084
4) MCPP	11.565	3731343	13.410	13.410
5) MCPA	11.884	5367173	13.217	13.217
6) Dichloroprop	12.291	9935118	0.165	0.165
7) 2,4-D	12.621	8772694	0.177	0.177
8) 2,4,5 TP (Silvex)	13.341	10303025	0.044	0.044
9) 2,4,5 -T	13.635	8826828	0.047	0.047
10) 2,4 DB	13.988	3526959	0.168	0.168
11) Dinosab	14.191	2672375	0.025	0.025

Data File: \\qcanoh04\dd\chem\GCS\ a2hp1.i\01017-2.b\041F4101.D Page 2  
Report Date: 18-Oct-2000 14:34

STL - North Canton

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: a2hp1.i      Injection Date: 18-OCT-2000 06:05  
Lab File ID: 041F4101.D      Init. Cal. Date(s): 21-JUL-2000 17-OCT-2000  
Analysis Type:                  Init. Cal. Times: 01:29 17:19  
Lab Sample ID: c530            Quant Type: ESTD  
Method: \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-2.b\HERBR.m

COMPOUND	RRF	RF2	MIN	MAX
	RRF	RRF	%D	%D
1 Dalapon	65493646	70193175	0.010	7.2  15.0
2 DCAA	52917553	56398931	0.010	6.6  15.0
3 Dicamba	181443956	193507875	0.010	6.6  15.0
4 MCPP	82158	72386	0.010	-11.9  15.0
5 MCPA	109839	96455	0.010	-12.2  15.0
6 Dichloroprop	60051799	62829738	0.010	4.6  15.0
7 2,4 D	49686898	56785756	0.010	14.3  15.0
8 2,4,5 TP (Silvex)	232219298	268786275	0.010	15.7  15.0  <-
9 2,4,5 -T	188876111	227098400	0.010	20.2  15.0  <-
10 2,4 DB	21024544	23743506	0.010	12.9  15.0
11 Dinoseb	108635439	110607083	0.010	1.8  15.0

Data File: \\qcanoh04\dd\chem\GCS\ a2hp1.i\01017-2.b\041F4101.D Page 1  
Report Date: 18-Oct-2000 14:34

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\ a2hp1.i\01017-2.b\041F4101.D  
Lab Smp Id: c530  
Inj Date : 18-OCT-2000 06:05  
Operator : 001754  
Smp Info : c530,,2  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\ a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 41 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 4.04  
Processing Host: QCANOH05  
Compound Sublist: 1-corp.sub

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT ( ng)	ON-COL ( ng)
1 Dalapon	2.713	2.713	0.000	5615454	0.08000	0.085740
2 DCBA	11.078	11.078	0.000	9023829	0.16000	0.17053
3 Dicamba	11.364	11.364	0.000	15480630	0.08000	0.085319
4 MCPP	11.560	11.560	0.000	1158175	16.0000	14.097
5 MCPA	11.879	11.879	0.000	1543284	16.0000	14.050
6 Dichloroprop	12.287	12.287	0.000	10052758	0.16000	0.16740
7 2,4 D	12.617	12.617	0.000	9085721	0.16000	0.18286
8 2,4,5 TP (Silvex)	13.338	13.338	0.000	10751451	0.04000	0.046299
9 2,4,5 -T	13.631	13.631	0.000	9083936	0.04000	0.048095
10 2,4 DB	13.983	13.983	0.000	3798961	0.16000	0.18069
11 Dinosab	14.188	14.188	0.000	2654570	0.02400	0.024436

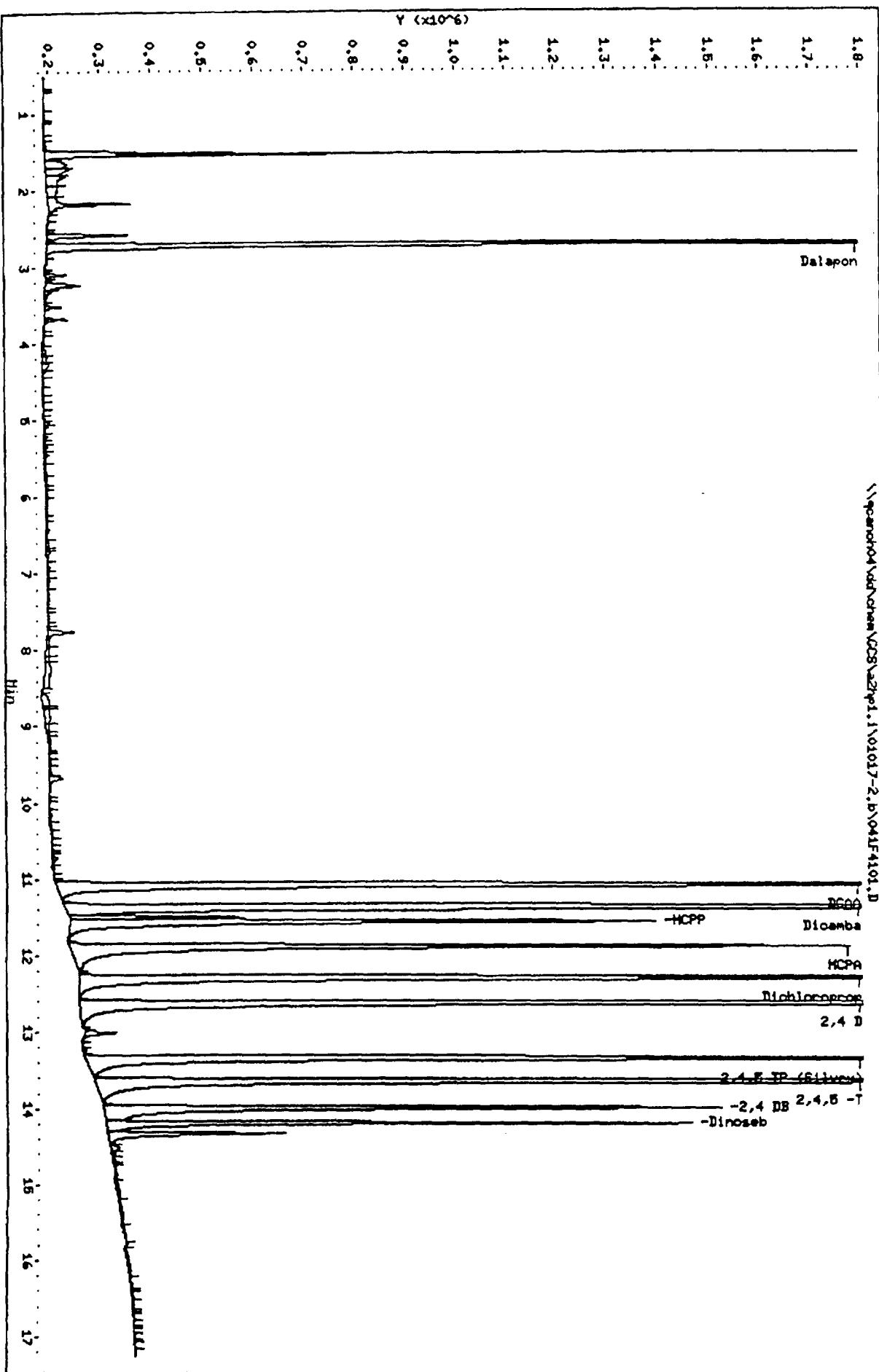
Client ID:  
Sample Info: c530,,2

Column phases: pesticopl

Instrument: 224p1.1

Operator: 001754  
Column diameter: 0.53

\\pcanon04\dd\chem\GCS\224p1.1\01017-2.b\041F4101.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 06:05  
 Data File: //QCANOH04/dd\chem\GCS\alhp1.1\01017-2.b\041F4101.D  
 Lab Sample ID: c530  
 Misc. Info:  
 Instrument: alhp1.1  
 Method: \\QCANOH04\\DD\\chem\\GCS\\alhp1.1\\01017-2.b\\MERBR.M  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.714	5615454	0.086	0.086
2) DCAA	11.078	9023829	0.171	0.171
3) Dicamba	11.365	15480630	0.085	0.085
4) MCPP	11.561	3821353	14.097	14.097
5) MCPA	11.880	5349062	14.050	14.050
6) Dichloroprop	12.287	10052758	0.167	0.167
7) 2,4 D	12.617	9085721	0.183	0.183
8) 2,4,5 TP (Silvex)	13.338	10751451	0.046	0.046
9) 2,4,5 -T	13.631	9083936	0.048	0.048
10) 2,4 DB	13.984	3798961	0.181	0.181
11) Dinosab	14.188	2654570	0.024	0.024



## *RAW QC DATA*

RMT  
CHECK SAMPLE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:A0J120000 378

Method: SW846 8151A

Herbicides (8151A)

Sample WT/Vol: 50 / g

Date Received: 09/01/00

Work Order: DM2XK1AC

Date Extracted: 10/13/00

Dilution factor: 1

Date Analyzed: 10/18/00

Moisture %:NA

QC Batch: 0286378

Client Sample Id: CHECK SAMPLE

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
94-75-7	2,4-D	270		
93-72-1	2,4,5-TP (Silvex)	80		
93-76-5	2,4,5-T	76		

STL - North Canton

HERBICIDES BY 8150

Data file : \\gcanoh04\dd\chem\GCS\A2hp1.i\01017-1.b\038F3801.D  
Lab Smp Id: DM2XXK1AC Client Smp ID: INTRA-LAB CHECK  
Inj Date : 18-OCT-2000 04:55  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xxk1ac  
Misc Info : corpsoil.spk  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\A2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 38 QC Sample: METHOD SPIKE  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: CANPGCSV03

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Eg)
1 Dalapon	1.907	1.907	0.000	487916	0.03043	60.86
2 2,4,4,4-DCAA	8.576	8.576	0.000	1884470	0.15060	15.06
3 Dicamba	8.901	8.902	-0.002	4339931	0.08702	174.0
4 MCPP	9.346	9.364	-0.018	21792	1.78290	3566
5 MCPA	Compound Not Detected.					
6 Dichloroprop	10.543	10.543	0.000	954553	0.06596	131.9
7 2,4,D	10.862	10.861	0.001	1663830	0.13433	268.7
8 2,4,5 TP (Silvex)	12.052	12.051	0.001	2531583	0.04017	80.33
9 2,4,5-T	12.335	12.333	0.002	1955844	0.03793	75.87
27 2,4,DB	12.821	12.820	0.001	875521	0.15953	319.0
28 Dinosab	Compound Not Detected.					

Date : 18-OCT-2000 0418S

Client ID: INTRA-LAB CHECK

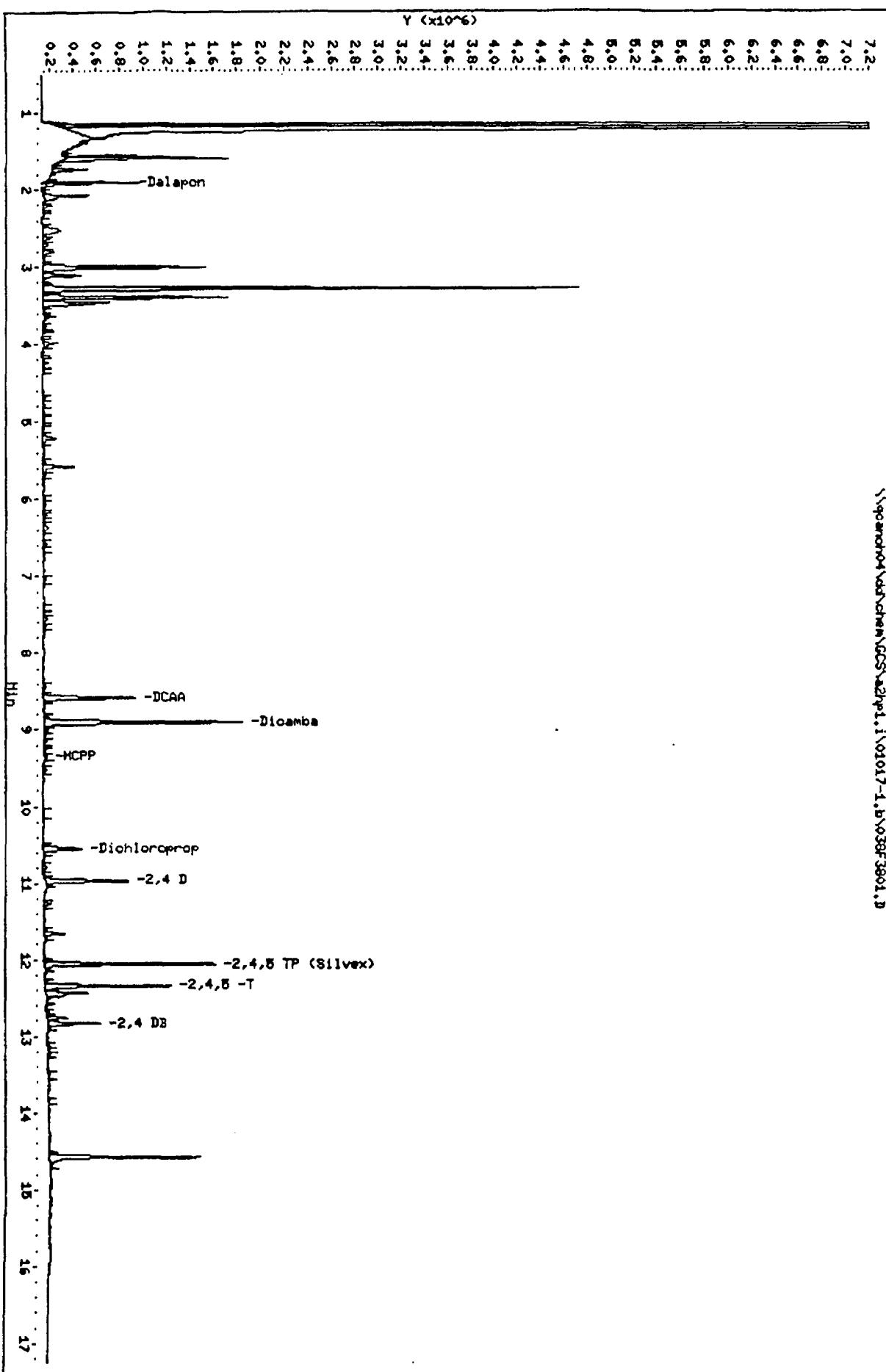
Sample Info: ab2441ac

Volume Injected (uL): 1.0

Column Phase: pesticpl

Instrument: z2p1.i  
Operator: 0047E4  
Column diameter: 0.53

\\pcanon04\dat\chem\GCS\z2p1.\101017-1.b\038F3801.D



STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\038F3801.D  
Lab Smp Id: DM2XXK1AC Client Smp ID: INTRA-LAB CHECK  
Inj Date : 18-OCT-2000 04:55  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xxk1ac  
Misc Info : corpsoil.spk  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 38 QC Sample: METHOD SPIKE  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: CANPGCSV03

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	1000000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN ( ng)	FINAL (ug/Lg)
1 Dalapon	3.715	3.713	0.002	4936185	0.07537	150.74
2 DCAA	11.078	11.078	0.000	8375812	0.15828	15.828
3 Dicamba	11.366	11.364	0.002	16492388	0.09090	181.79
4 MCPP				Compound Not Detected.		
5 MCPA	11.838	11.879	-0.041	26368	0.24006	480.12
6 Dichloroprop	12.287	12.287	0.000	3859365	0.06427	128.53
7 2,4-D	12.618	12.617	0.001	7730477	0.15558	311.17
8 2,4,5-TP (Silvex)	13.338	13.338	0.000	10266337	0.04421	88.419 (R)
9 2,4,5-T	13.631	13.631	0.000	8923557	0.04725	94.491
10 2,4-DB	13.982	13.983	-0.001	4244265	0.20187	403.74
11 Dinoseb	14.197	14.188	0.009	369850	0.00340	6.8090

Data File: \\gcanoh04\dd\chem\GCS\aqhpl.i\01017-2.b\038F3801.D Page 2  
Report Date: 20-Oct-2000 06:36

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\pcanthon\\dat\\chem\\GCS\\22hp1.1\\01017-2.b\\038F-3801.D

Date : 18-OCT-2000 04:55

Client ID: INTRO-LAB CHECK

Sample Info: ab20d1ac

Volume Injected (uL): 1.0

Column phase: opl11

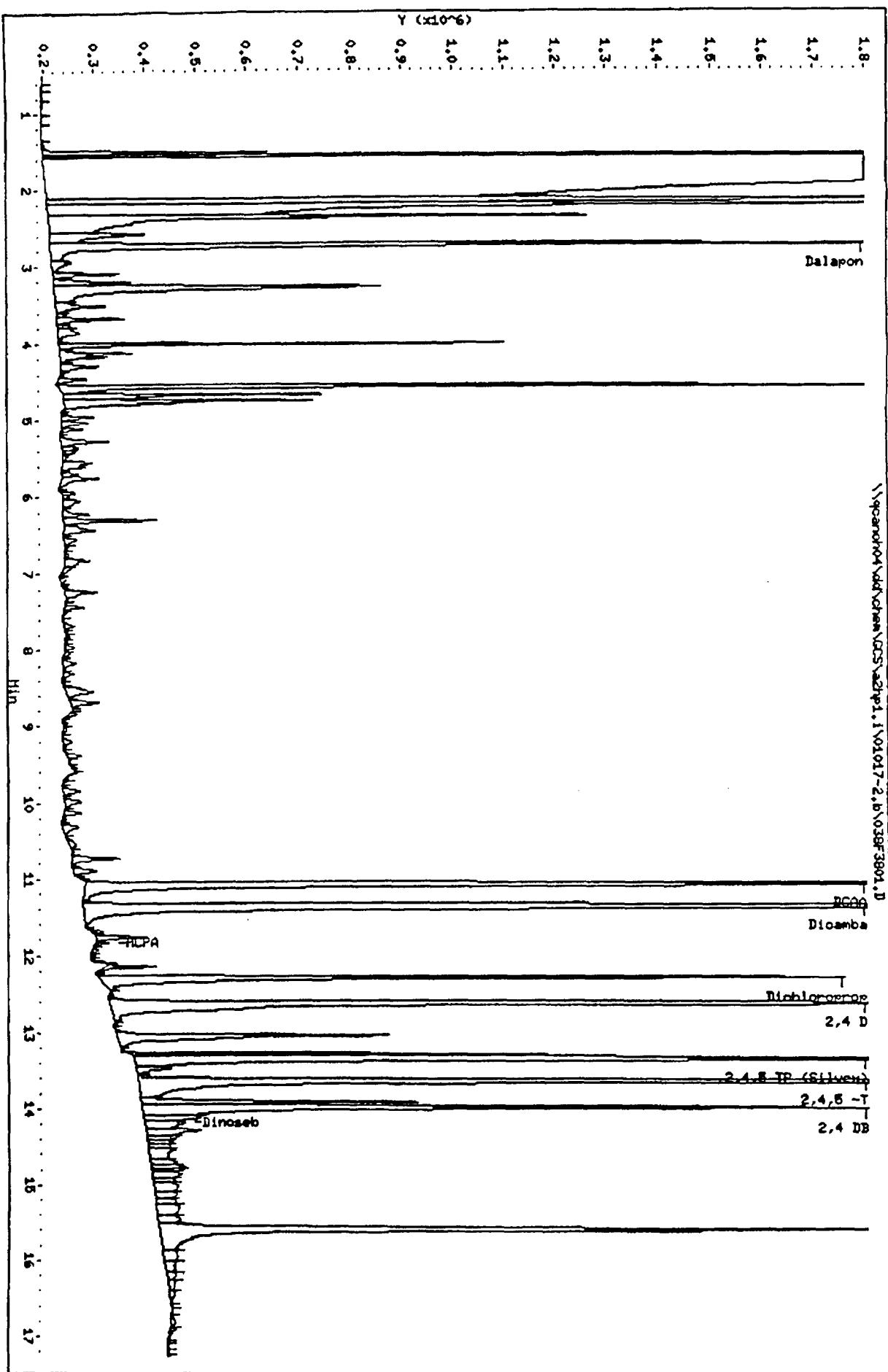
Page 4

Instrument: 22hp1.1

Operator: 001754

Column diameter: 0.53

\\pcanthon\\dat\\chem\\GCS\\22hp1.1\\01017-2.b\\038F-3801.D



RMT  
CHECK SAMPLE DUPLICATE COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID:A0J120000 378

Sample WT/Vol: 50 / g  
Work Order: DM2XK1AD  
Dilution factor: 1  
Moisture %:NA

Date Received: 09/01/00  
Date Extracted: 10/13/00  
Date Analyzed: 10/18/00

QC Batch: 0286378

Client Sample Id: DUPLICATE CHECK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
94-75-7	2,4-D	350		
93-72-1	2,4,5-TP (Silvex)	98		
93-76-5	2,4,5-T	94		

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\039F3901.D  
Lab Smp Id: DM2XXK1AD Client Smp ID: INTRA-LAB CHECK  
Inj Date : 18-OCT-2000 05:18  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xxk1ad  
Misc Info : corposoil.spk  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 39 QC Sample: METHOD SPIKE  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: CANPGCSV03

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	RT	EXP RT	DLT RT	RT	CONCENTRATIONS		
					ON-COLUMN (ng)	FINAL (ug/kg)	
1 Dalapon	1.908	1.907	0.001	1136362	0.07099	142.0	
2 DCBA	8.578	8.576	0.002	2199776	0.17579	17.58	
3 Dicamba	8.903	8.902	0.001	4761030	0.09546	190.9	
4 MCPP	9.346	9.364	-0.018	16360	1.33848	3677	
5 MCPA				Compound Not Detected.			
6 Dichloroprop	10.544	10.543	0.001	1168244	0.08073	161.4	
7 2,4 D	10.963	10.961	0.002	2167100	0.17497	349.9	
8 2,4,5 TP (Silvex)	12.053	12.051	0.002	3099605	0.04918	98.36 (R)	
9 2,4,5 -T	12.335	12.333	0.002	2412234	0.04678	93.57	
27 2,4 DB	12.821	12.820	0.001	1131200	0.20611	412.2	
28 Dinosab				Compound Not Detected.			

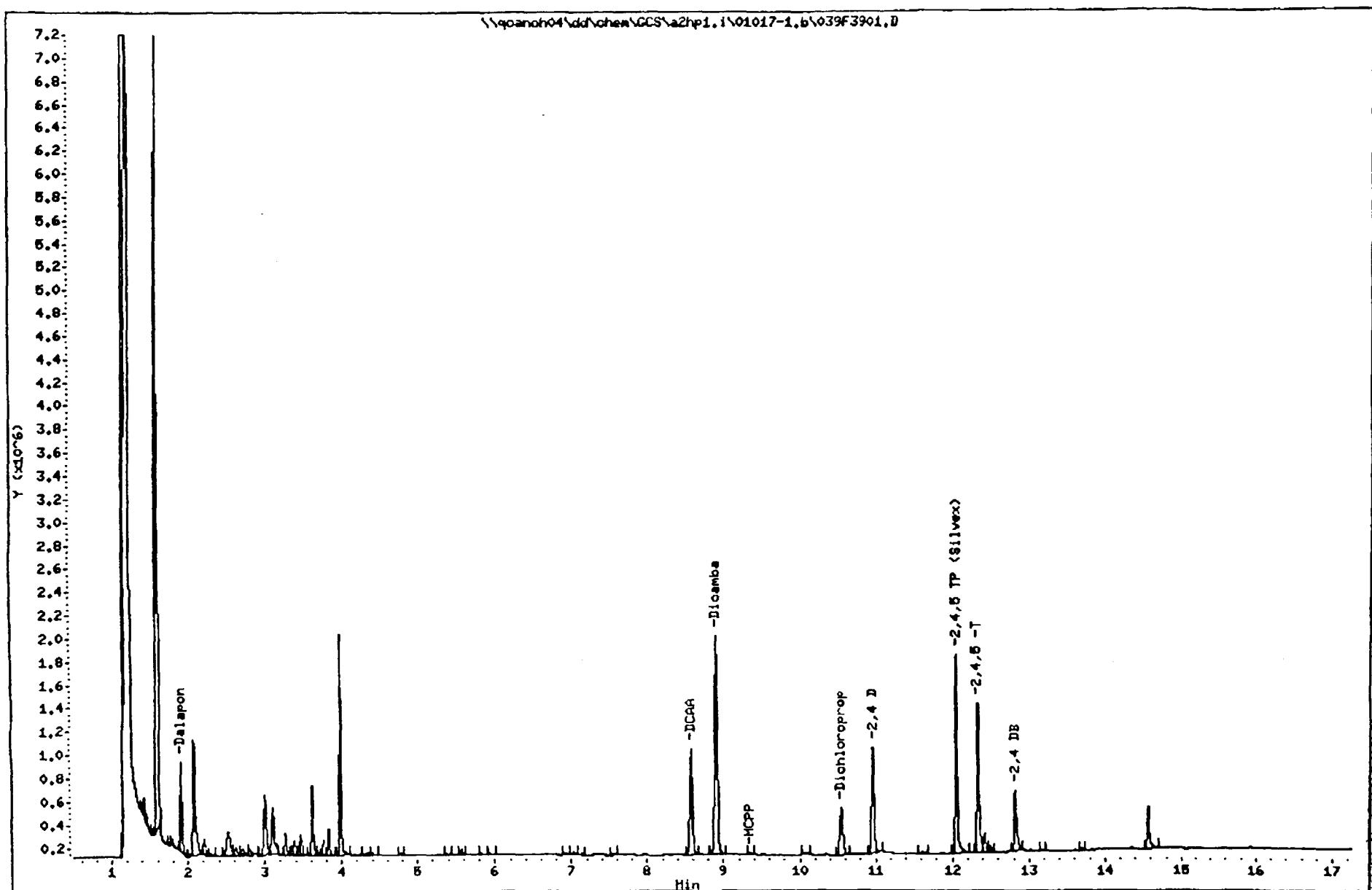
Data File: \\qcanoh04\dd\chem\GCS\aq2hp1.i\01017-1.b\039F3901.D Page 2  
Report Date: 20-Oct-2000 06:28

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\qcanoh04\dd\chem\GCS\z2hp1.i\01017-1.b\039F3901.D  
Date : 18-OCT-2000 06:18  
Client ID: INTRA-LAB CHECK  
Sample Info: dm2xxclad  
Volume Injected (uL): 1.0  
Column phase: pestclpl

Instrument: z2hp1.i  
Operator: 001764  
Column diameter: 0.53



Data File: \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\039F3901.D Page 1  
Report Date: 20-Oct-2000 06:36

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\039F3901.D  
Lab Smp Id: DM2XXK1AD Client Smp ID: INTRA-LAB CHECK  
Inj Date : 18-OCT-2000 05:18  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xxk1ad  
Misc Info : corpcsoil.spk  
Comment :  
Method : \\\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 39 QC Sample: METHOD SPIKE  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: CANPGCSV03

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	RT	EXP RT	DLT RT	RT	RESPONSE	CONCENTRATIONS	
						( ng)	(ug/Kg)
1 Dalapon	2.715	2.713	0.002	5218782	0.07968	159.37	
2 2,4,5-T	11.079	11.078	0.001	9907542	0.18723	18.723	
3 Dicamba	11.366	11.364	0.002	18219437	0.10041	200.83	
4 MCPP					Compound Not Detected.		
5 MCPA	11.918	11.879	0.039	3798	0.03458	69.156	
6 Dichloroprop	12.288	12.287	0.001	4709643	0.07843	156.85	
7 2,4,D	12.618	12.617	0.001	9642980	0.19407	388.15	
8 2,4,5 TP (Silvex)	13.338	13.338	0.000	12451525	0.05162	107.24 (R)	
9 2,4,5 -T	13.633	13.631	0.002	9799075	0.05188	103.76 (R)	
10 2,4,DB	13.983	13.983	0.000	4246935	0.20200	404.00	
11 Dinosab	14.203	14.188	0.015	60824	0.00056	1.1198	

Data File: \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\039F3901.D Page 2  
Report Date: 20-Oct-2000 06:36

QC Flag Legend

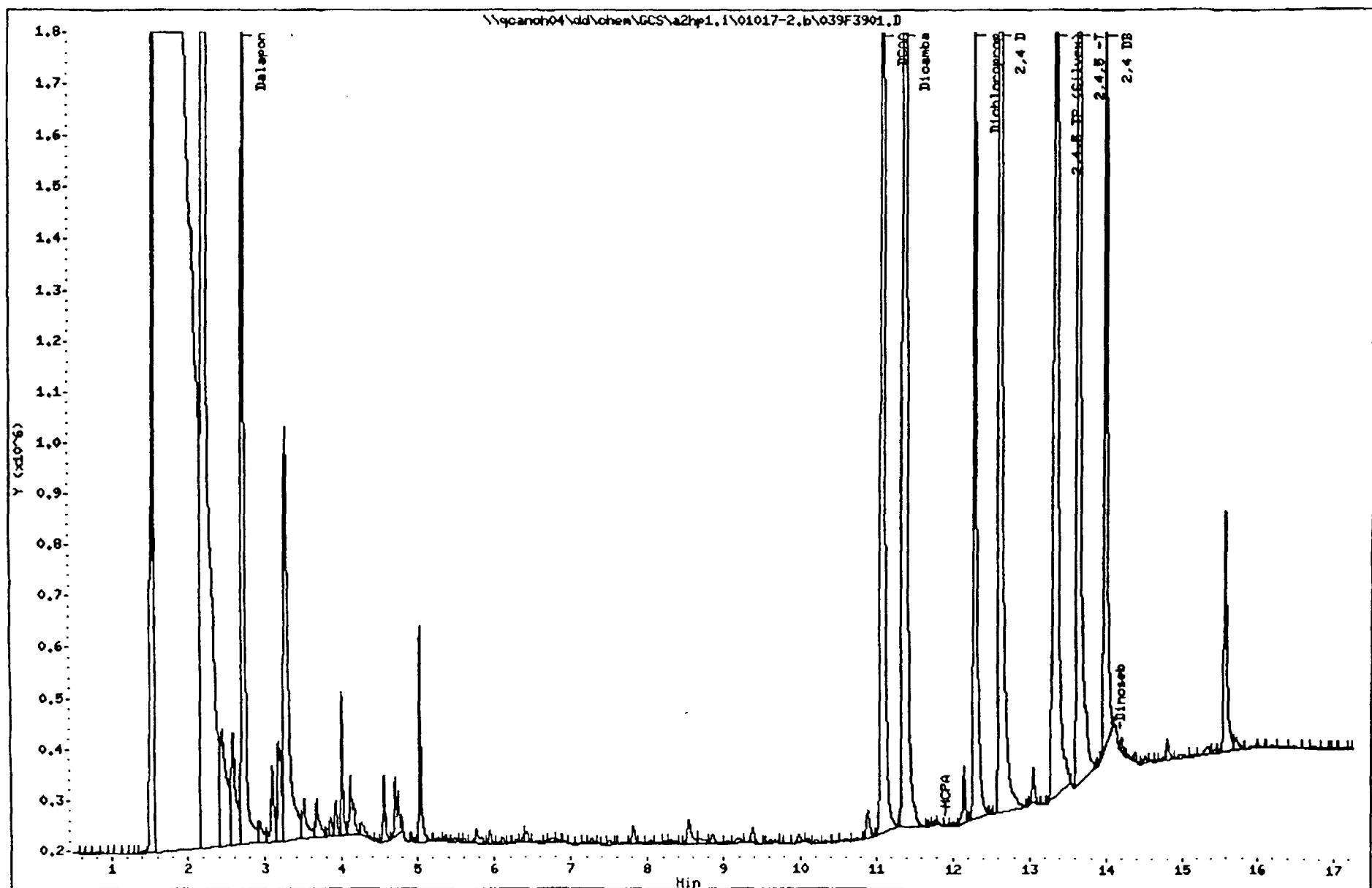
R - Spike/Surrogate failed recovery limits.

Data File: \\qcanoh04\dd\chem\GCS\z2hp1.i\01017-2.b\039F3901.D  
Date : 18-OCT-2000 05:18  
Client ID: INTRA-LAB CHECK  
Sample Info: dm2ddiad  
Volume Injected (uL): 1.0  
Column phase: clpII

Instrument: z2hp1.i  
Operator: 001754  
Column diameter: 0.53

Page 4

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RMT  
METHOD BLANK COMPOUNDS

Lab Name:Severn Trent Laboratories, Inc. SDG Number:

Matrix: (soil/water) SOLID  
Method: SW846 8151A  
Herbicides (8151A)

Lab Sample ID:A0J120000 378

Sample WT/Vol: 50 / g  
Work Order: DM2XXK1AA  
Dilution factor: 1  
Moisture %:NA

Date Received: 09/01/00  
Date Extracted: 10/13/00  
Date Analyzed: 10/18/00  
QC Batch: 0286378

Client Sample Id: INTRA-LAB BLANK

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/kg)	ug/kg	Q
94-75-7	2,4-D	80		U
93-72-1	2,4,5-TP (Silvex)	20		U
93-76-5	2,4,5-T	20		U

STL - North Canton

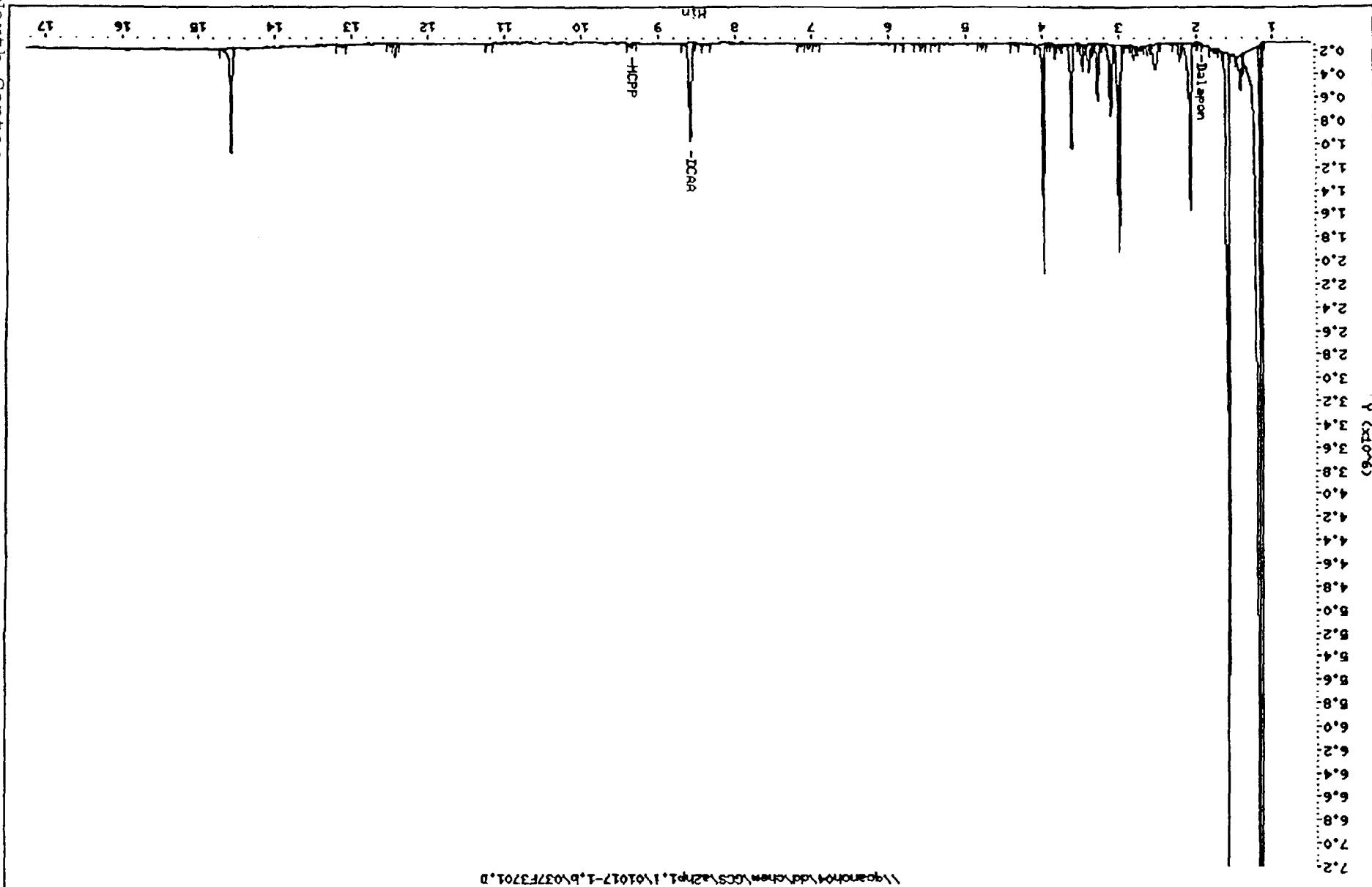
HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-1.b\037F3701.D  
Lab Smp Id: DM2XX1AA Client Smp ID: INTRA-LAB BLANK  
Inj Date : 18-OCT-2000 04:32  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xxklaa  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-1.b\HERB.m  
Meth Date : 18-Oct-2000 13:10 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 37 QC Sample: METHOD BLANK  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	RT	CONCENTRATIONS			
		EXP RT	DLT RT	RESPONSE	ON-COLUMN ( ng) PINAL (ug/Kg)
1 Dalapon	1.940	1.907	0.033	34594	0.00216 4.915
2 DCAA	8.575	8.576	-0.001	2049028	0.16375 16.37
3 Dicamba				Compound Not Detected.	
4 MCPP	9.344	9.364	-0.020	40812	3.33900 6678
5 MCPA				Compound Not Detected.	
6 Dichloroprop				Compound Not Detected.	
7 2,4 D				Compound Not Detected.	
8 2,4,5 TP (Silvex)				Compound Not Detected.	
9 2,4,5 -T				Compound Not Detected.	
27 2,4 DB				Compound Not Detected.	
28 Dinoseb				Compound Not Detected.	



## COMPOUNDS AND EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 04:32  
Data File: //qcanoh04/dd/chem/GCS/a2hpl.1\01017-1.b\037F3701.D  
Lab Sample ID: DM2XXLAA  
Misc. Info:  
Instrument: a2hpl.1  
Method: \\QCANOH04\\DD\\chem\\GCS\\a2hpl.1\\01017-1.b\\MERS.M  
Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	1.941	34594	0.002	4.315 ug/Kg
2) DCAA	8.576	2049028	0.164	16.370 ug/Kg
3) Dicamba	NOT DETECTED	Expected RT = 8.902		
4) MCPP	9.345	105397	3.339	6678.000 ug/Kg
5) MCPA	NOT DETECTED	Expected RT = 9.698		
6) Dichloroprop	NOT DETECTED	Expected RT = 10.543		
7) 2,4-D	NOT DETECTED	Expected RT = 10.961		
8) 2,4,5-TP (Silvex)	NOT DETECTED	Expected RT = 12.051		
9) 2,4,5-T	NOT DETECTED	Expected RT = 12.334		
27) 2,4-DB	NOT DETECTED	Expected RT = 12.821		
28) Dinosab	NOT DETECTED	Expected RT = 13.611		

STL - North Canton

HERBICIDES BY 8150

Data file : \\qcanoh04\dd\chem\GCS\a2hp1.i\01017-2.b\037F3701.D  
Lab Smp Id: DM2XK1AA Client Smp ID: INTRA-LAB BLANK  
Inj Date : 18-OCT-2000 04:32  
Operator : 001754 Inst ID: a2hp1.i  
Smp Info : dm2xk1aa  
Misc Info :  
Comment :  
Method : \\QCANOH04\DD\chem\GCS\a2hp1.i\01017-2.b\HERBR.m  
Meth Date : 18-Oct-2000 14:22 jacksons Quant Type: ESTD  
Cal Date : 17-OCT-2000 17:19 Cal File: 008F0801.D  
Als bottle: 37 QC Sample: METHOD BLANK  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-corp.sub  
Target Version: 4.04  
Processing Host: QCANOH05

Concentration Formula: Amt \* DF \* Vt\*Vi/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Vt	100000.000	final volume
Vi	1.000	injection volume
Vo	50.000	initial volume

Compounds	CONCENTRATIONS					
	RT	HLP RT	DLT RT	RESPONSE	( ng)	(ug/Kg)
1 Dalapon	2.731	2.713	0.038	193076	0.00314	4.6745
2 DCRA	11.077	11.078	-0.001	9374263	0.17715	17.715
3 Dicamba	Compound Not Detected.					
4 MCPP	11.834	11.860	-0.026	2367	0.02881	57.621
5 MCPA	Compound Not Detected.					
6 Dichloroprop	12.340	12.287	0.053	81071	0.00135	2.7000
7 2,4 D	12.617	12.617	0.000	8661	<0.0	0.34862
8 2,4,5 TP (Silvex)	13.292	13.338	-0.046	474017	0.00204	4.0825
9 2,4,5 -T	13.624	13.631	-0.007	2700	<0.0	0.028590
10 2,4 DB	13.974	13.983	-0.009	67739	0.00322	6.4438
11 Dinosab	14.202	14.188	0.014	56091	<0.0	1.0326

Date File: \\pcanon4\\data\\chem\\GCS\\a2hp1.i\\01017-2.b\\037F3701.D

Date : 18-OCT-2000 04:32

Client ID: INTRA-LAB BLANK

Sample Info: d2xk1aa

Volume Injected (μL): 1.0

Column phase: pestolpi

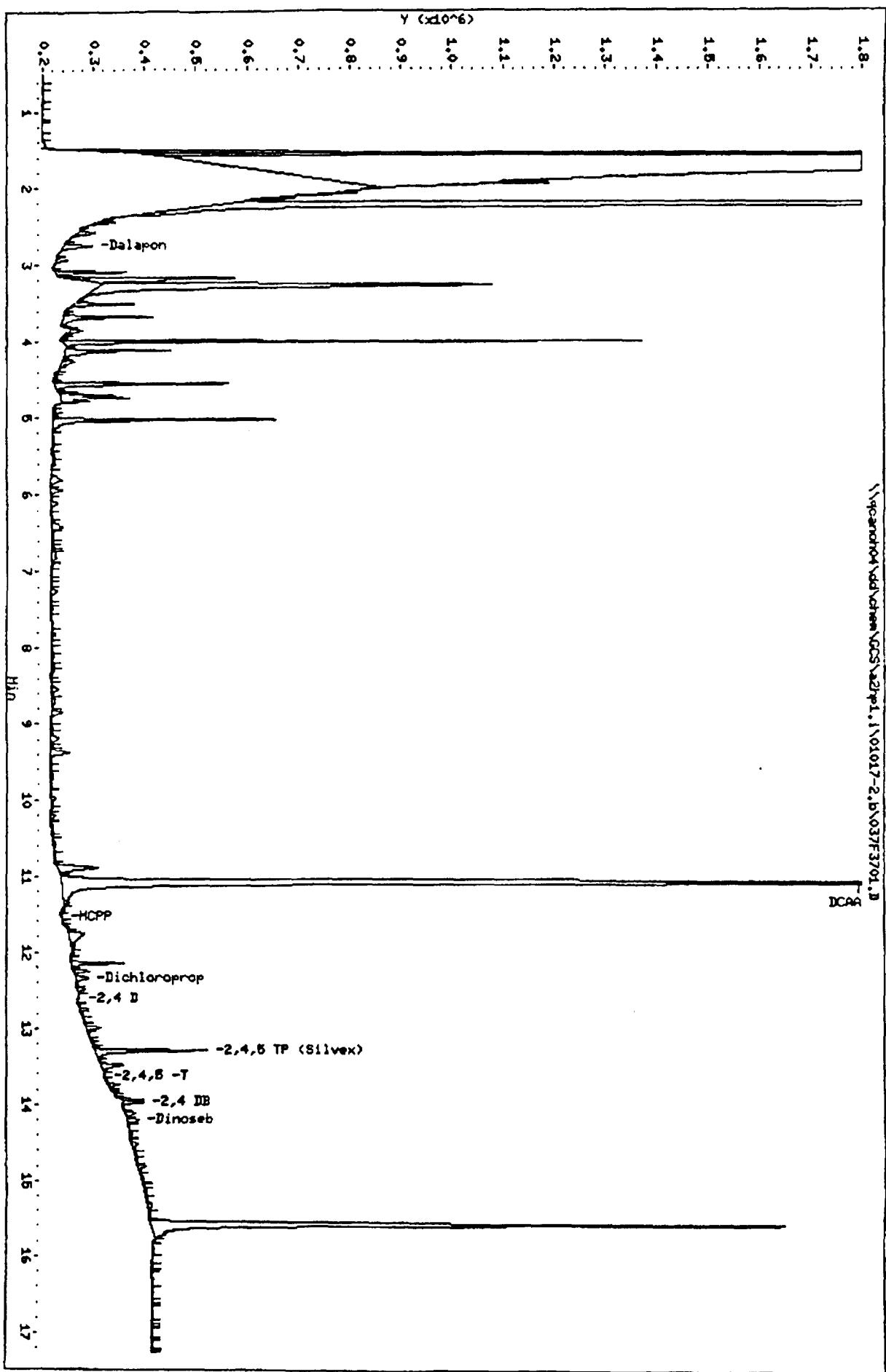
Page 3

Instrument: a2hp1.i

Operator: 001754

Column diameter: 0.03

\\pcanon4\\data\\chem\\GCS\\a2hp1.i\\01017-2.b\\037F3701.D



## COMPOUNDS and EXP. RT REPORT

Operator: 001754 Date Acquired: 18-OCT-2000 04:32  
 Data File: //qcanoh04/dd/chem/GCS/a2hpl.i\01017-2.b\037F3701.D  
 Lab Sample ID: DMCXXX1AA  
 Misc. Info:  
 Instrument: a2hpl.i  
 Method: \\QCANOH04\DD\chem\GCS\ a2hpl.i\01017-2.b\HHRBR.m  
 Dilution Factor: 1

Compound	RT	Area	Amount	Conc
1) Dalapon	2.752	153076	0.002	4.675 ug/Kg
2) DCAA	11.077	9374263	0.177	17.715 ug/Kg
3) Dicamba		NOT DETECTED	Expected RT = 11.365	
4) MCPP	11.534	6728	0.029	57.621 ug/Kg
5) MCPA		NOT DETECTED	Expected RT = 11.880	
6) Dichloroprop	12.341	81071	0.001	2.700 ug/Kg
7) 2,4 D	12.617	6661	0.000	0.349 ug/Kg
8) 2,4,5 TP (Silvex)	13.292	474017	0.002	4.082 ug/Kg
9) 2,4,5 -T	13.624	2700	0.000	0.029 ug/Kg
10) 2,4 DB	13.974	67739	0.003	6.444 ug/Kg
11) Dinoseb	14.202	56091	0.001	1.033 ug/Kg



## ***MISCELLANEOUS DATA***

## Method Information

herb

## Method Change History

Operator	Date	Change Information
	6/24/99 10:49:39 AM	
	6/24/99 10:58:39 AM	
	6/24/99 11:06:32 AM	
	6/24/99 11:13:43 AM	
	6/24/99 11:17:09 AM	
	6/24/99 11:18:22 AM	
	6/24/99 11:22:29 AM	
	7/7/99 2:25:16 PM	

## Run Time Checklist

Pre-Run Cmd/Macro: off  
Data Acquisition: on  
Standard Data Analysis: off  
Customized Data Analysis: on  
Macro Name: macro "autolan.mac"; autolan "c:\chemlan\ a2hp1  
Save GLP Data: off  
Post-Run Cmd/Macro: off  
  
Save Method with Data: off

## Injection Source and Location

Injection Source: HP GC Injector  
Injection Location: Front

-----  
HP6890 GC METHOD  
-----

## OVEN

Initial temp: 100 °C (On)  
 Initial time: 2.00 min

Maximum temp: 330 °C  
 Equilibration time: 2.00 min

## Ramps:

#	Rate	Final temp	Final time
1	35.00	160	2.00
2	2.00	150	0.50
3	30.00	260	3.00
4	0.0 (Off)		

Post temp: 0 °C  
 Post time: 0.00 min  
 Run time: 17.88 min

## FRONT INLET (UNKNOWN)

Mode: Splitless  
 Initial temp: 200 °C (On)  
 Pressure: 8.00 psi (On)  
 Purge flow: 30.0 mL/min  
 Purge time: 0.75 min  
 Total flow: 77.9 mL/min  
 Gas saver: Off  
 Gas type: Hydrogen

## BACK INLET ()

## COLUMN 1

Capillary Column  
 Model Number: RESTEK CLPI  
 CLPI  
 Max temperature: 300 °C  
 Nominal length: 30.0 m  
 Nominal diameter: 530.00 um  
 Nominal film thickness: 0.50 um  
 Mode: constant pressure  
 Pressure: 8.00 psi  
 Nominal initial flow: 20.9 mL/min  
 Average velocity: 154 cm/sec  
 Inlet: Front Inlet  
 Outlet: Front Detector  
 Outlet pressure: ambient

## COLUMN 2

Capillary Column  
 Model Number: RESTEK CLPII  
 CLPII  
 Max temperature: 300 °C  
 Nominal length: 30.0 m  
 Nominal diameter: 530.00 um  
 Nominal film thickness: 0.50 um  
 Mode: (see column 1)  
 Pressure: 8.00 psi  
 Nominal initial flow: 20.9 mL/min  
 Average velocity: 154 cm/sec  
 Inlet: Front Inlet  
 Outlet: Back Detector  
 Outlet pressure: ambient

FRONT DETECTOR ( $\mu$ ECD)

Temperature: 300 °C (On)  
 Mode: Constant makeup flow  
 Makeup flow: 60.0 mL/min (On)  
 Makeup Gas Type: Nitrogen  
 Electrometer: On

BACK DETECTOR ( $\mu$ ECD)

Temperature: 300 °C (On)  
 Mode: Constant column+makeup flow  
 Combined flow: 60.0 mL/min  
 Makeup flow: On  
 Makeup Gas Type: Nitrogen  
 Electrometer: On

## SIGNAL 1

Data rate: 20 Hz  
 Type: front detector  
 Save Data: On  
 Zero: 0.0 (Off)  
 STL North Canton

## SIGNAL 2

Data rate: 20 Hz  
 Type: back detector  
 Save Data: On  
 Zero: 0.0 (Off)

Range: 0  
Fast Peaks: Off  
Attenuation: 0

Range: 0  
Fast Peaks: Off  
Attenuation: 0

COLUMN COMP 1  
Derive from front detector

COLUMN COMP 2  
Derive from back detector

POST RUN  
Post Time: 0.00 min

TIME TABLE

Time	Specifier	Parameter & Setpoint
------	-----------	----------------------

7673 Injector

Front Injector:

Sample Washes	4
Sample Pumps	4
Injection Volume	2.0 microliters
Syringe Size	10.0 microliters
PostInj Solvent A Washes	4
PostInj Solvent B Washes	4
Viscosity Delay	0 seconds
Plunger Speed	Fast
PreInjection Dwell	0.00 minutes
PostInjection Dwell	0.00 minutes

Back Injector:

No parameters specified

Digitized by srujanika@gmail.com

## Integration Events

Results will be produced with the enhanced integrator.

## Default Integration Event Table "Event"

Event	Value	Time
Initial Slope Sensitivity	1.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.700	Initial
Initial Shoulders	OFF	Initial

## Detector Default Integration Event Table "Event TCD"

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

## Detector Default Integration Event Table "Event ADC"

Event	Value	Time
Initial Slope Sensitivity	20.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

## Detector Default Integration Event Table "Event FID"

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

-----  
Detector Default Integration Event Table "Event\_ECD"  
-----

Event	Value	Time
Initial Slope Sensitivity	100.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

-----  
Detector Default Integration Event Table "Event\_NPD"  
-----

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

-----  
Detector Default Integration Event Table "Event\_FPD"  
-----

Event	Value	Time
Initial Slope Sensitivity	50.000	Initial
Initial Peak Width	0.040	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

-----  
Detector Default Integration Event Table "Event\_uECD"  
-----

Event	Value	Time
Initial Slope Sensitivity	500.000	Initial
Initial Peak Width	0.080	Initial
Initial Area Reject	1.000	Initial
Initial Height Reject	1.000	Initial
Initial Shoulders	OFF	Initial

Apply Manual Integration Events: No

-----  
Calibration Table  
-----

Calib. Data Modified :

Calculate : Area Percent  
STL North Canton

a2h01 10/13/99 3:20:51 PM Kuster

Rel. Reference Window : 5.000 %  
Abs. Reference Window : 0.000 min  
Rel. Non-ref. Window : 5.000 %  
Abs. Non-ref. Window : 0.000 min  
Uncalibrated Peaks : not reported  
Partial Calibration : Yes, identified peaks are recalibrated  
Correct All Ret. Times: No, only for identified peaks

Curve Type : Linear  
Origin : Included  
Weight : Equal

Recalibration Settings:  
Average Response : Average all calibrations  
Average Retention Time: Floating Average New 75%

Calibration Report Options :

Printout of recalibrations within a sequence:  
Calibration Table after Recalibration  
Normal Report after Recalibration  
If the sequence is done with bracketing:  
Results of first cycle (ending previous bracket)

-----  
Peak Sum Table  
-----

\*\*\*No Entries in table\*\*\*  
-----

Sequence: C:\HPCHEM\1\SEQUENCES\V1001...  
1 - 1

Sequence Parameters:

Operator: 001754  
Data File Naming: Auto  
Data Directory: C:\HPCHEM\1\DATA\  
Data Subdirectory: 01017  
Part of Methods to run: According to Runtime Checklist  
Barcode Reader: not used  
Shutdown Cmd/Macro: none  
Sequence Comment:

Sequence Table (Front Injector):

Calibration Part:

Line	Vial	SampleName	Method	CalLev	Update RF	Update RT	Interval
====	=====	=====	=====	=====	=====	=====	=====

Quantification Part:

Line	Vial	SampleName	SampleAmount	ISTDAmnt	Multiplier	Dilution
====	=====	=====	=====	=====	=====	=====

1 1 h  
2 2 h  
3 3 c527,,1,1  
4 4 c528,,1,2  
5 5 c529,,1,3  
6 6 c530,,1,4  
7 7 c531,,1,5  
8 8 c532,,1,6  
9 9 dlvdmi05  
10 10 dm1pw1aa  
11 11 dm2gn1aa  
12 12 dm2gn1ac  
13 13 dm2gn1ad  
14 14 dm2h01aw  
15 15 dm2k91a4  
16 16 dm2lh1af  
17 17 dm2ln1am  
18 18 dm2lr1cw  
19 19 dm2lr1cx  
20 20 dm2lr1c0  
21 21 dm5d81af  
22 22 dm6r01aj  
23 23 dm7aq1aa  
24 24 primer  
25 25 c530,,2 pacsF PASS AVG R(mCPP MCPA 245-T)

:quence: C:\HPCHEM\1\SEQUENCE\01017.S

Line	Vial	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
26	26	dm7aq1ac				
27	27	dlve1105				
28	28	dlve7105				
29	29	dlxcx101				
30	30	dlxdj101				
31	31	dlxdq101				
32	32	dlxdrl01				
33	33	dlxdw101				
34	34	dlxdx101				
35	35	dlxe0101				
36	36	dlxe3101				
37	37	dm2xk1aa				
38	38	dm2xk1ac				
39	39	dm2xk1ad				
40	40	primer				
41	41	c530,,2	pass	(silver 245-T)	R	

Sequence Table (Back Injector):

No entries - empty table!

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 10/17/00  
Time: 7:36:43

<u>LEV</u>	<u>LEV</u>	<u>LEV</u>	<u>LEV</u>
<u>Y</u>	<u>Y</u>	Blank	<u>Y</u> <u>Y</u>
<u>Y</u>	<u>Y</u>	Check	<u>Y</u> <u>Y</u>
<u>-</u>	<u>-</u>	MS/MSD	<u>Y</u> <u>Y</u>
			Weights/Volumes Spike & Surrogate Worksheet Vial contains correct volume Labels, greenbars, worksheets computer batch: correct & all match Anomalies to Extraction Method

Y Expanded Deliverable  
Y COC Completed  
Y Bench Sheet Copied  
- Package Submitted to Analytical Group  
- Bench Sheet Copied per COC

Extractionist: 007696 Nathan A. Pietras

\*\*\*\*\*  
\* QC BATCH: 0286378 \*  
\*\*\*\*\*

PRP DATE: 10/13/00  
COMP DATE: 10/13/00Concentrationist: 007453 Doug KlingenburgReviewer/Date: PIETRASN / 10/16/00Herbicides (8151A)  
SONICATION -> DERIVATIZATION

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT#, MSRUN#/ WORK ORDER</u>	<u>TEST FLGS</u>	<u>EXT</u>	<u>MTH</u>	<u>MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH'S</u>	<u>INIT</u>	<u>ADJ1</u>	<u>ADJ2</u>	<u>SOLVENTS EXTRACTION VOL EXCHANGE</u>	<u>VOL</u>	<u>SPIKE STANDARD/ SURROGATE ID</u>	
		A0J100194-003													
10/22/00	10/24/00	DLVRL-1-05		OV	QS	SOLID	50.03g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
COMMENTS: WOOD/PLASTIC															
		A0J100194-004													
10/21/00	10/24/00	DLVRL-1-05		OV	QS	SOLID	50.03g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
COMMENTS: WOOD/PLASTIC															
		A0J110192-001		D	OV	QS	50.00g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
9/14/00	10/24/00	DLXCK-1-01													
COMMENTS:															
		A0J110192-002		D	OV	QS	50.09g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
9/14/00	10/24/00	DLXDJ-1-01													
COMMENTS:															
		A0J110192-004		D	OV	QS	50.01g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
9/14/00	10/24/00	DLXDJQ-1-01													
COMMENTS:															
		A0J110192-005		D	OV	QS	50.04g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
9/14/00	10/24/00	DLXDR-1-01													
COMMENTS:															
		A0J110192-006		D	OV	QS	50.16g 100.00mL		NA	NA	NA	DCM/ACE	300.0 HEXANE	9.0	1ML HERBSOILSURR #3747
9/14/00	10/24/00	DLXDW-1-01													
COMMENTS:															

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 10/17/00  
Time: 7:36:43

*****									
QC BATCH:		0206378		PRP DATE:		10/13/00		COMP DATE:	
*****									

<u>EXTR EXPR</u>	<u>ANL DUE</u>	<u>LOT#, MSRUN#/ WORK ORDER</u>	<u>TEST FLAGS</u>	<u>EXT MTH MATRIX</u>	<u>INIT/FIN WT/VOL</u>	<u>PH'S INIT ADJ1</u>	<u>ADJ2 EXTRAC</u>	<u>SOLVENTS VOL EXCHANGE</u>	<u>VOL</u>	<u>SPIKE STANDARD/ SURROGATE ID</u>
9/14/00 10/24/00 A0J110192-007	D	0V QS SOLID	50.07g	NA NA NA DCM/ACE	300.0	HEXANE	9.0	1ML HERBSOILSURR #3747		
100.00mL										

9/14/00 10/24/00 A0J110192-008  
COMMENTS: POSS SWITCH W/DLXDX

A0J110192-009	D	0V QS SOLID	50.06g	NA NA NA DCM/ACE	300.0	HEXANE	9.0	1ML HERBSOILSURR #3747	
100.00mL									

A0J120000-378	D	0V QS SOLID	50.03g	NA NA NA DCM/ACE	300.0	HEXANE	9.0	1ML HERBSOILSURR #3747	
100.00mL									

A0J120000-378	D	0V QS SOLID	50.00g	NA NA NA DCM/ACE	300.0	HEXANE	9.0	1ML HERBSOILSURR #3747	
100.00mL									

A0J120000-378	R	0V QS SOLID	50.00g	NA NA NA DCM/ACE	300.0	HEXANE	9.0	1ML HERBSOILSPIKE #3749	
100.00mL									

9/14/00 0/00/00 A0J120000-378  
COMMENTS: POSS SWITCH W/DLXDX

NP S&S  
DCM #103281 ACR #H451T23465 NA2504 #8024104644 ETHER #BWS500

R = RUSH	C = CLP
E = EPA 600	D = EXP.DEL)
M = CLIENT REQ MS/MSD	

13

NUMBER OF WORK ORDERS IN BATCH:

10/25/00 05:37:21

## Sample Control Chain of Custody - STL North Canton

PAGE 1

LOT NUMBER	SAMPLE NUMBER	LAB ID	ANALYSIS TYPE	PREP DATE	PREP ANALYST	DATE OF TRANSFERRED BY	ANALYSIS DATE	ANALYST
AQJ110192	1	DUXC101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	2	DUXU101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	4	DUXD101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	5	DUXR101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	6	DUXW101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	7	DUXX101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	8	DUXB101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach
AQJ110192	9	DUXE101	028151_S	10/13/00	Nathan Pietras	10/16/00 Nathan Pietras	10/18/00	Carolyne Beach

\*\*\* END OF REPORT \*\*\*



## ***GENERAL CHEMISTRY DATA***



## *QC SUMMARY*

## METHOD BLANK REPORT

## General Chemistry

Client Lot #: A0J110192

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>WORK ORDER #:</u>		<u>MB LOT-SAMPLE #:</u>	<u>ANALYSIS DATE</u>
Percent Solids	ND	10.0	%	DLXK9101	MB Lot-Sample #: A0J110000-395 MCAWW 160.3 MOD	09/06-09/07/00	0285395
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

**Client Lot #....: A0J110192      Work Order #....: DLXCX-SMP      Matrix.....: SO**  
**DLXCX-DUP**

**Date Sampled...:** 08/31/00 09:40 **Date Received..:** 09/01/00

Moisture.....: 21

<u>PARAM</u>	<u>RESULT</u>	<u>DUPPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Solids	79.4	75.8	%	4.7	(0-20)	SD Lot-Sample #: A0J110192-001 MCAWW 160.3 MOD	09/06-09/07/00	0285395

Dilution Factor: 1



## ***SAMPLE DATA***

RMT

Client Sample ID: SL50-6"

General Chemistry

Lot-Sample #....: A0J110192-001 Work Order #....: DLXCX Matrix.....: SO  
Date Sampled...: 08/31/00 09:40 Date Received..: 09/01/00  
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Solids	79.4	10.0	%	MCANW 160.3 MOD	09/06-09/07/00	0285395

Dilution Factor: 1

RMT

Client Sample ID: SL50-4'

General Chemistry

Lot-Sample #....: A0J110192-002    Work Order #....: DLXDJ              Matrix.....: SO  
Date Sampled...: 08/31/00 09:50    Date Received..: 09/01/00  
% Moisture.....: 22

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Solids	77.7	10.0	#	MCANW 160.3 MOD	09/06-09/07/00	0285395

Dilution Factor: 1

MMT

Client Sample ID: SLS1-4'

General Chemistry

Lot-Sample #....: A0J110192-004    Work Order #....: DLXDQ    Matrix.....: SO  
Date Sampled....: 08/31/00 10:30    Date Received..: 09/01/00  
% Moisture.....: 27

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
			%		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	73.0	10.0	%	MCANW 160.3 MOD	09/06-09/07/00	0285395
	Dilution Factor: 1					

RMT

Client Sample ID: SL52-6\*

General Chemistry

Lot-Sample #....: A0J110192-005    Work Order #....: DLXDR    Matrix.....: SO  
Date Sampled....: 08/31/00 10:45    Date Received..: 09/01/00  
% Moisture.....: 35

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
			%	MCANW 160.3 MOD	ANALYSIS DATE	BATCH #
Percent Solids	65.4	10.0	%		09/06-09/07/00	0285395

Dilution Factor: 1

MMT

Client Sample ID: SL52-4'

General Chemistry

Lot-Sample #....: A0J110192-006    Work Order #....: DLXDW    Matrix.....: SO  
Date Sampled...: 08/31/00 10:45    Date Received..: 09/01/00  
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Solids	78.9	10.0	%	MCANW 160.3 MOD	09/06-09/07/00	0285395
		Dilution Factor:	1			

**RMT**

**Client Sample ID: SL53-6\***

**General Chemistry**

**Lot-Sample #....: A0J110192-007    Work Order #....: DLXDX              Matrix.....: SO  
Date Sampled...: 08/31/00 11:00    Date Received..: 09/01/00  
% Moisture.....: 31**

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
			%		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Solids	68.7	10.0	%	MCANW 160.3 MOD	09/06-09/07/00	0285395
		Dilution Factor: 1				

RMT

Client Sample ID: SL54-6\*

**General Chemistry**

Lot-Sample #....: A0J110192-008    Work Order #....: DLXEO    Matrix.....: SO  
Date Sampled...: 08/31/00 11:05    Date Received...: 09/01/00  
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Solids	76.1	10.0	#	MCAWW 160.3 MOD	09/06-09/07/00	0285395

Dilution Factor: 1

RMT

Client Sample ID: SL55-6"

General Chemistry

Lot-Sample #....: A0J110192-009    Work Order #....: DLXK3              Matrix.....: SO  
Date Sampled....: 08/31/00 11:08    Date Received..: 09/01/00  
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
			%	MCANW 160.3 MOD	ANALYSIS DATE	BATCH #
Percent Solids	86.2	10.0	%	MCANW 160.3 MOD	09/06-09/07/00	0285395

Dilution Factor: 1



## ***SUPPORTIVE RAW DATA***

Parameter(s): ~~nitrate~~ percent  
Batch # 0250353 / 0250390

Method# /SOP#:

Review Items	Level I Review			Level II Review		
	YES	NO	N/A	YES	NO	N/A
A. Initial Calibration						
1. Initial calibration correlation coefficient > 0.995?				✓		
2. Calibration curve consist of the minimum number of calibration standards?				✓		
3. ICV analyzed at immediately after calibration and within control limits? (TRAACS Nitrate/Nitrite, Cyanide 85-115%; all others 90-110%)				✓		
4. ICB analyzed immediately after ICV and within criteria ( $\pm$ RL)?				✓		
B. Continuing Calibration						
1. CCV analyzed every 10 samples, at end of sequence and within criteria?				✓		
2. CCB analyzed every 10 samples, at end of sequence & within criteria ( $\pm$ RL)?				✓		
C. Sample Results						
1. Were samples with concentrations > the linear range diluted and reanalyzed?				✓		
2. All reported results bracketed by in control QC?				✓	✓	
3. Sample analyses done within holding time?				✓	✓	
D. Quality Control						
1. LCS per prep batch and within QC limits? (LCSD, where applicable)				✓		
2. Method blank done per prep batch and < RL. Method blank RL supports the lowest RL reported for the batch?					✓	
3. MS/MSD run at required frequency and evaluated? MS/MSD reported properly and calculated correctly?				✓		
4. Duplicate samples run at required frequency (duplicate sample performed per matrix encountered)?				✓	✓	
E. Titration						
1. Titrant standardized?				✓		
2. If no, standardization expires				✓		
F. Other						
1. Are all nonconformances documented appropriately (NCM or narrative)?				✓		
2. Calculations checked for error?				✓		
3. Transcriptions checked for error?				✓		
4. All client/project specific requirements met?				✓		
5. Date/time of preparation and analysis verified as correct?				✓		
6. Units verified as correct?				✓		
7. Dilutions have been properly applied and RL's adjusted appropriately?				✓		
8. SOP followed?				✓		
9. Calculations checked at minimum frequency (at least 20%, 100% for QC)?				✓		
10. All reagent and standard numbers recorded in logbook?				✓		
11. Edits dated and initialed				✓		

Comment on any "NO" response(s):

Level I reviewer: Michaela Ault Date: 9-200

Level II Reviewer: Heather Mysurwitz Date: 9-11-00

## Sheet1

STL North Canton						
Percent Total Solid/Percent Moisture Logsheet						
Analysis	TSM		Batch	250390		
Prep Date	9/6/00	Time In	16:00	Analyst	BW/ML	
Anal date	9/7/00	Time Out	7:30	RL	10	
Sample	Tare	Wet	Dry	Result TS	Result MS	comments
Id	wt	wt	wt	%	%	
BLK	5.652	5.7763	5.7603	4.14	ND	
DJRNND	5.652	11.4992	10.1957	77.707	22.293	
DJRNG	5.652	9.0753	6.9557	38.083	61.917	
DJRNQ	5.652	13.5832	11.4419	73.002	26.998	
DJRNK	5.652	11.5782	9.5248	65.350	34.650	
DJRNMM	5.652	12.0231	10.6796	78.913	21.087	
DJRNQ	5.652	18.1611	14.2475	68.714	31.286	
DJRN4	5.652	9.3885	8.8187	79.398	20.602	
DJRN4X	5.652	8.6514	7.9245	75.765	24.235	
DJRP0	5.652	14.7928	12.6046	76.061	23.939	
DJRP7	5.652	14.2998	13.1022	86.151	13.849	

10/26/00 09:23:42

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## Sample Control Chain of Custody - STL North Canton

LOT NUMBER	SAMPLE NUMBER	SAMPLE SUFFIX	LAB ID	ANALYSIS TYPE	PREP DATE	PREP ANALYST	ANALYSIS DATE	ANALYST
AQ110192	1	X	DUXC102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	1	X	DUXC103	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	2		DUXE102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	4		DUXE102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	5		DUXR102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	6		DUXM102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	7		DUXO102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	8		DUXE0102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon
AQ110192	9		DUXE5102	TS	9/06/00	Oligoita Colon	9/07/00	Oligoita Colon

\*\*\* END OF REPORT \*\*\*